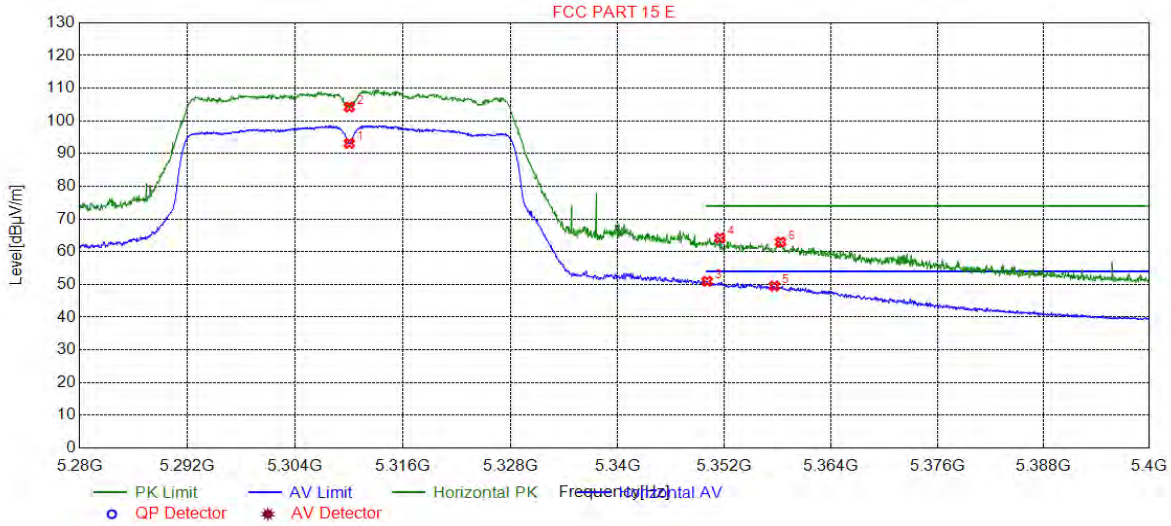
4.10.1.68 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	93.16	0.00	-93.16	208	213	Horizontal
2	5310.000	104.24	0.00	-104.24	122	213	Horizontal
3	5350.055	50.98	54.00	3.02	246	213	Horizontal
4	5351.495	64.22	74.00	9.78	149	222	Horizontal
5	5357.618	49.51	54.00	4.49	198	208	Horizontal
6	5358.339	62.99	74.00	11.01	147	208	Horizontal

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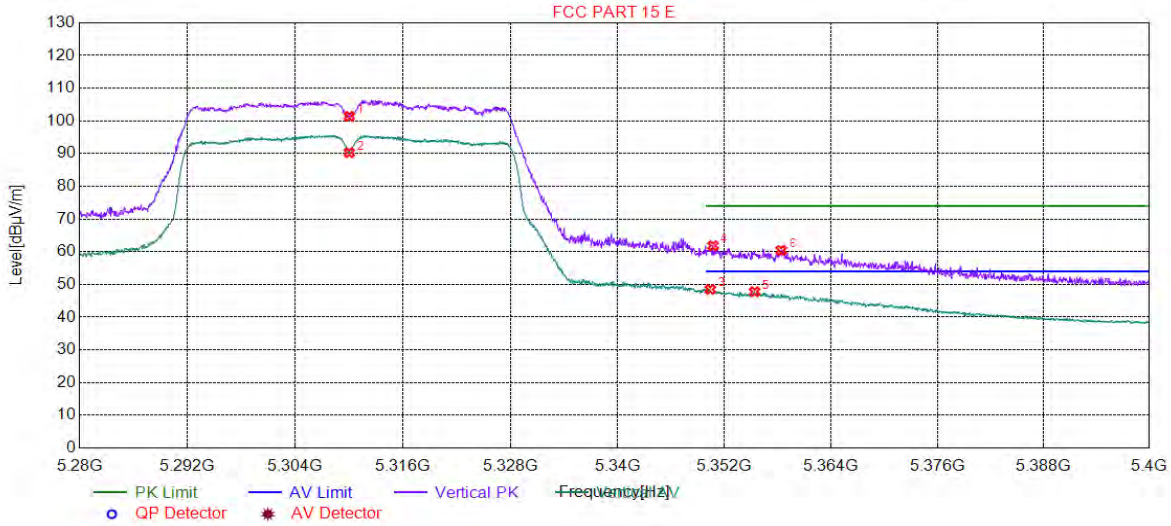
4.10.1.69 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	101.42	0.00	-101.42	285	202	Vertical
2	5310.000	90.31	0.00	-90.31	257	193	Vertical
3	5350.415	48.49	54.00	5.51	271	193	Vertical
4	5350.715	61.87	74.00	12.13	192	193	Vertical
5	5355.397	47.78	54.00	6.22	266	193	Vertical
6	5358.399	60.44	74.00	13.56	263	188	Vertical

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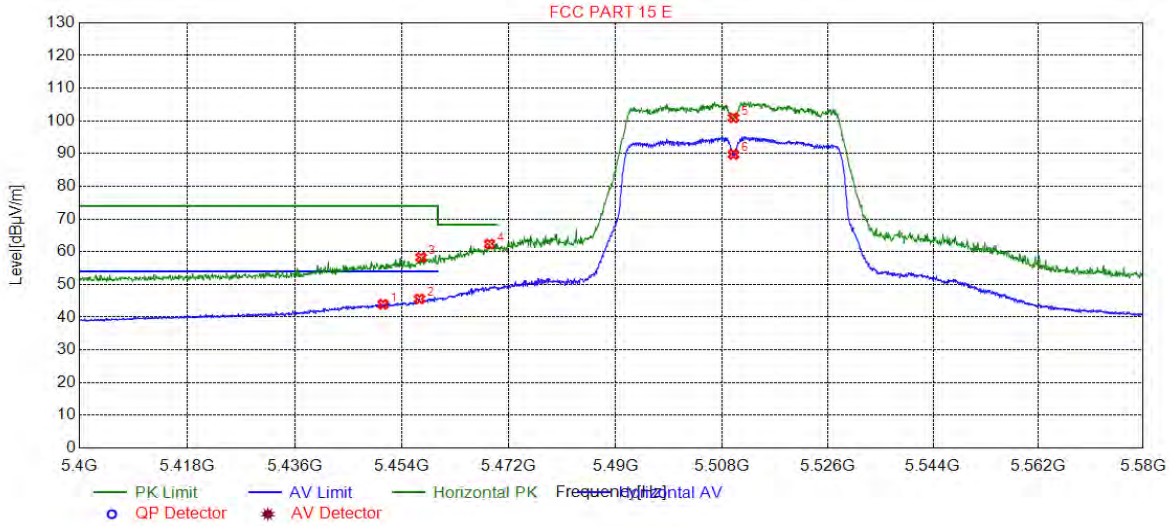
4.10.1.70 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5450.785	43.94	54.00	10.06	101	210	Horizontal
2	5456.908	45.59	54.00	8.41	186	215	Horizontal
3	5457.178	58.29	74.00	15.71	137	215	Horizontal
4	5468.704	62.39	68.30	5.91	112	210	Horizontal
5	5510.000	100.98	0.00	-100.98	199	210	Horizontal
6	5510.000	89.83	0.00	-89.83	200	210	Horizontal

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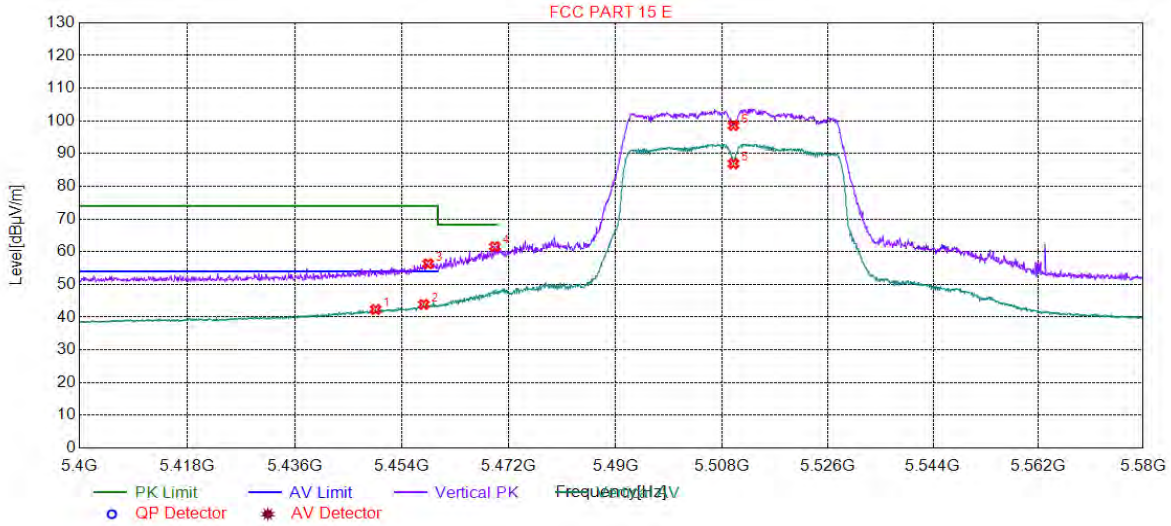
4.10.1.71 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5449.524	42.34	54.00	11.66	204	191	Vertical
2	5457.628	43.90	54.00	10.10	255	191	Vertical
3	5458.349	56.35	74.00	17.65	290	186	Vertical
4	5469.604	61.61	68.30	6.69	221	196	Vertical
5	5510.000	86.93	0.00	-86.93	202	200	Vertical
6	5510.000	98.60	0.00	-98.60	276	196	Vertical

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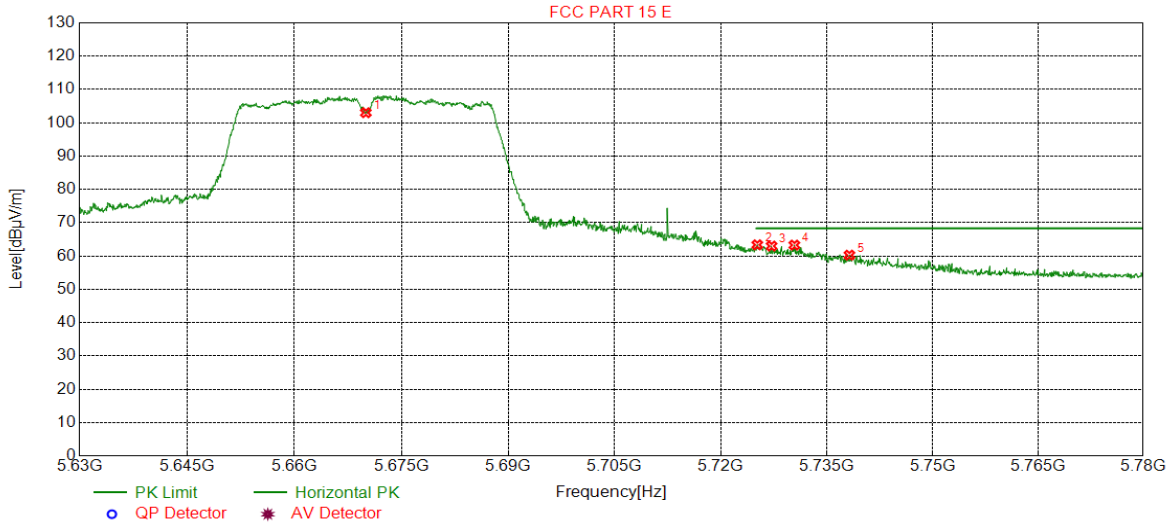
4.10.1.72 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	103.03	0.00	-103.03	119	335	Horizontal
2	5725.147	63.37	68.30	4.93	148	16	Horizontal
3	5727.173	63.00	68.30	5.30	224	23	Horizontal
4	5730.400	63.29	68.30	5.01	182	23	Horizontal
5	5738.204	60.28	68.30	8.02	167	30	Horizontal

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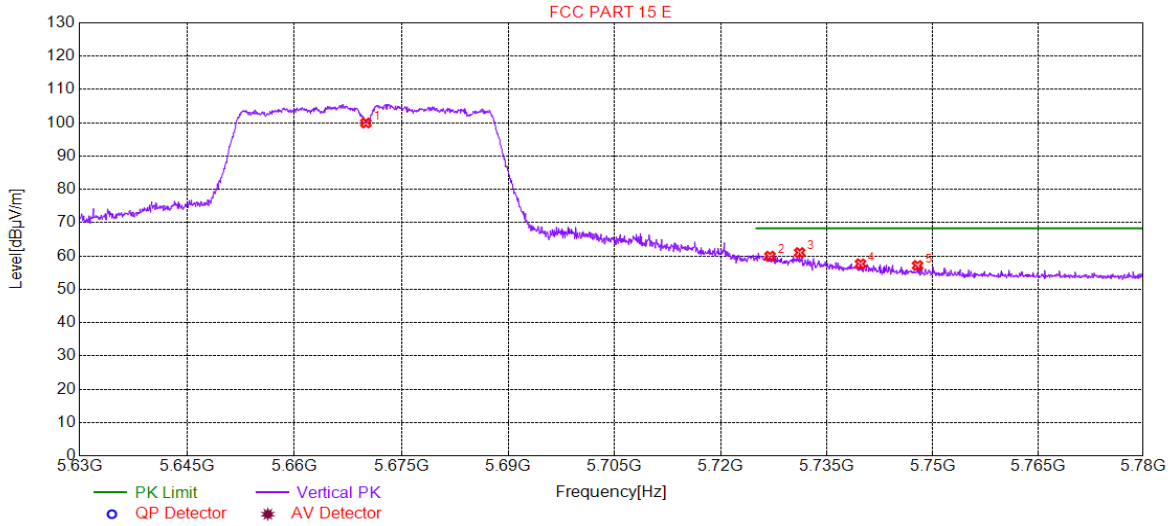
4.10.1.73 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	99.94	0.00	-99.94	179	206	Vertical
2	5726.948	59.95	68.30	8.35	245	192	Vertical
3	5731.150	61.02	68.30	7.28	267	203	Vertical
4	5739.779	57.66	68.30	10.64	246	185	Vertical
5	5747.883	57.15	68.30	11.15	183	196	Vertical

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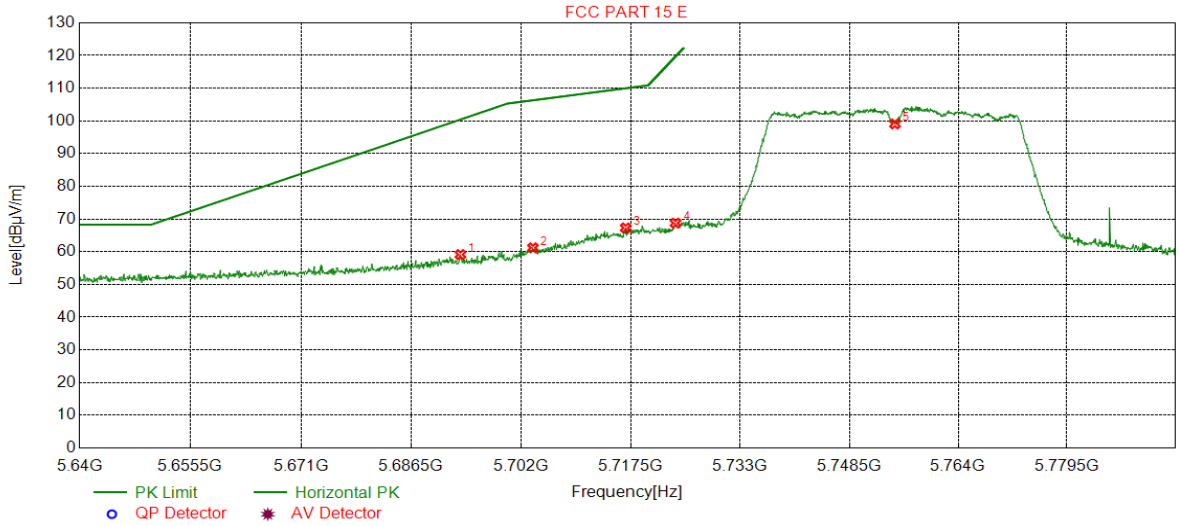
4.10.1.74 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5693.424	59.14	100.43	41.29	219	343	Horizontal
2	5703.659	61.22	106.32	45.10	113	23	Horizontal
3	5716.763	67.31	109.99	42.68	148	339	Horizontal
4	5723.819	68.78	119.61	50.83	202	339	Horizontal
5	5755.000	99.08	0.00	-99.08	158	44	Horizontal

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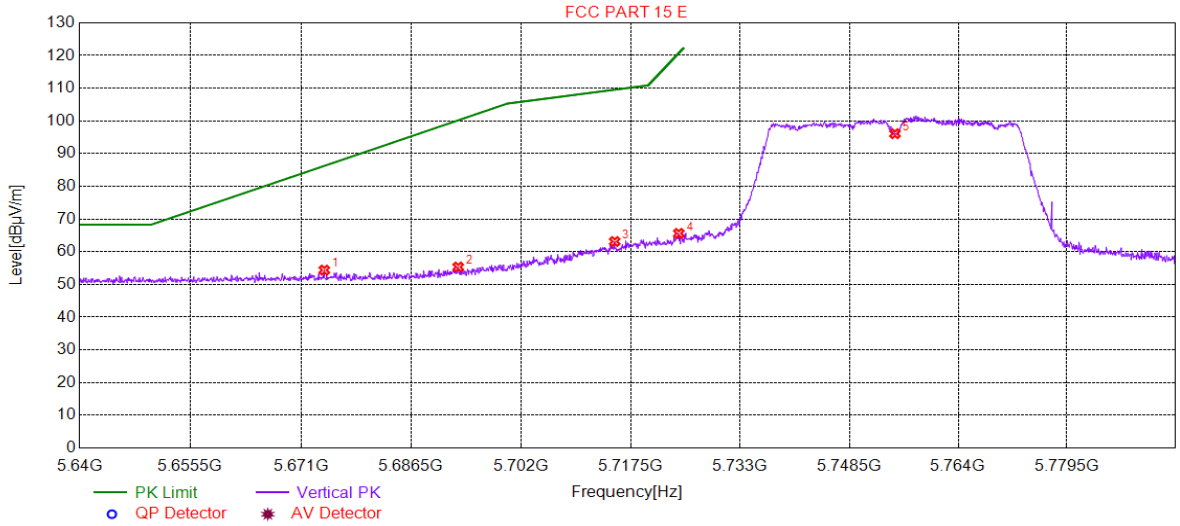
4.10.1.75 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5674.272	54.40	86.26	31.86	156	20	Vertical
2	5693.114	55.34	100.20	44.86	228	27	Vertical
3	5715.212	63.15	109.56	46.41	293	34	Vertical
4	5724.284	65.62	120.67	55.05	175	23	Vertical
5	5755.000	96.11	0.00	-96.11	291	34	Vertical

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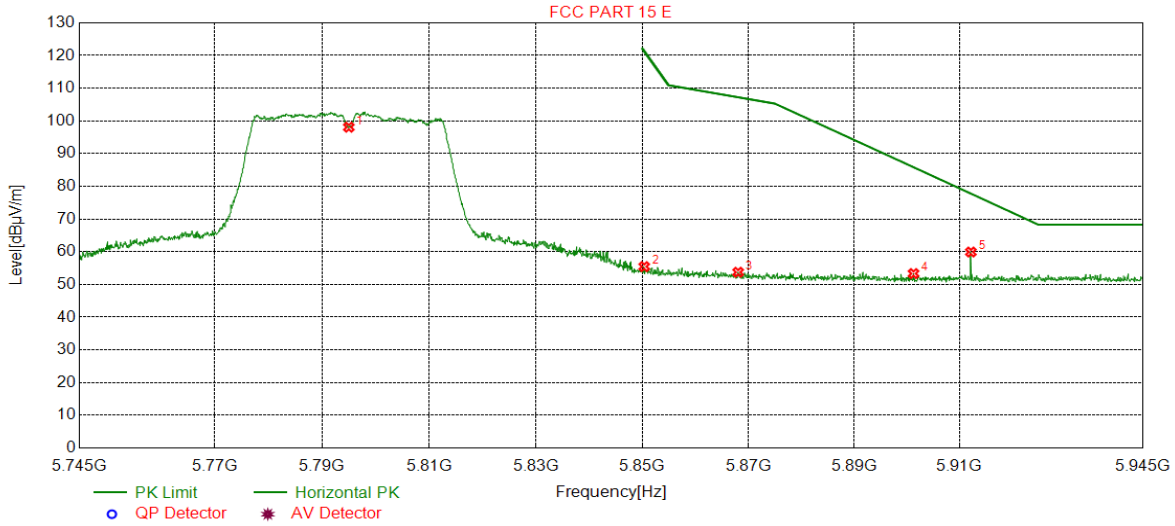
4.10.1.76 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	98.09	0.00	-98.09	212	44	Horizontal
2	5850.352	55.46	121.50	66.04	159	212	Horizontal
3	5868.061	53.75	107.24	53.49	203	212	Horizontal
4	5901.278	53.34	85.85	32.51	106	212	Horizontal
5	5912.183	59.93	77.78	17.85	147	265	Horizontal

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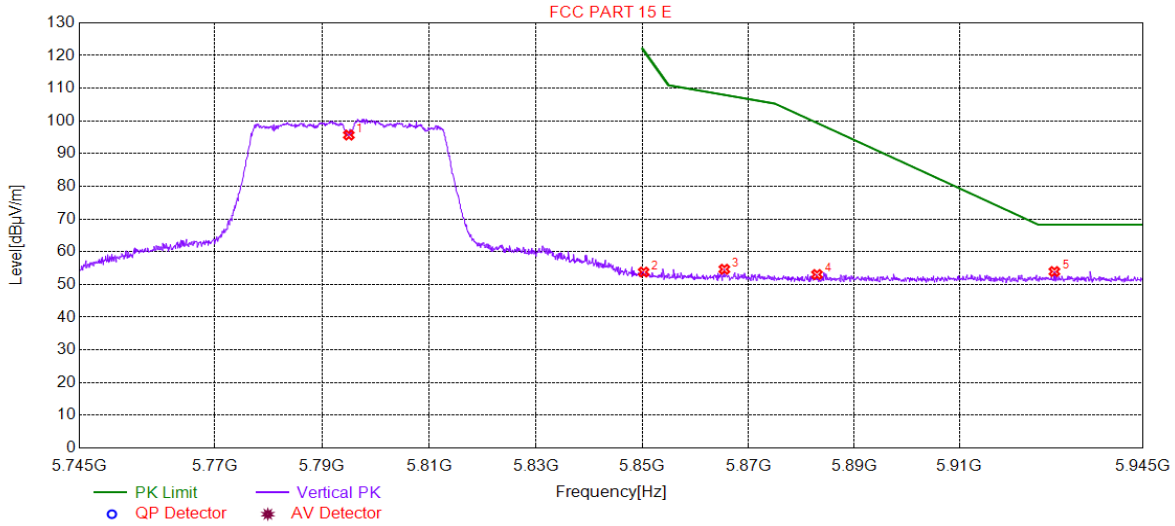
4.10.1.77 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	95.69	0.00	-95.69	290	28	Vertical
2	5850.252	53.80	121.72	67.92	281	18	Vertical
3	5865.460	54.66	107.97	53.31	152	35	Vertical
4	5882.969	53.05	99.40	46.35	270	138	Vertical
5	5928.091	53.96	68.30	14.34	292	49	Vertical

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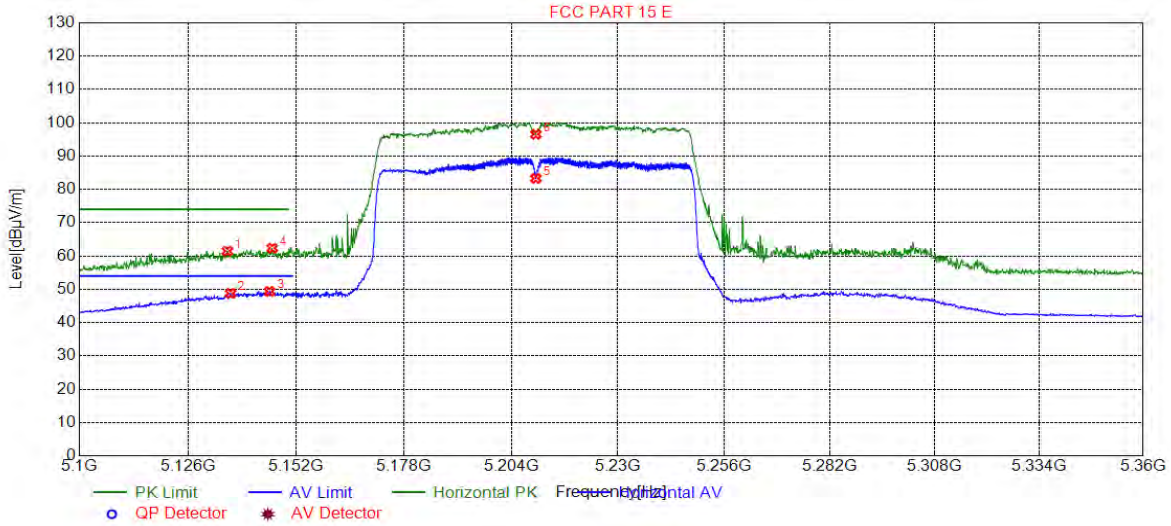
4.10.1.78 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5135.377	61.50	74.00	12.50	211	214	Horizontal
2	5136.158	48.78	54.00	5.22	234	214	Horizontal
3	5145.522	49.36	54.00	4.64	122	214	Horizontal
4	5146.173	62.36	74.00	11.64	237	214	Horizontal
5	5210.000	83.30	0.00	-83.30	227	224	Horizontal
6	5210.000	96.54	0.00	-96.54	213	219	Horizontal

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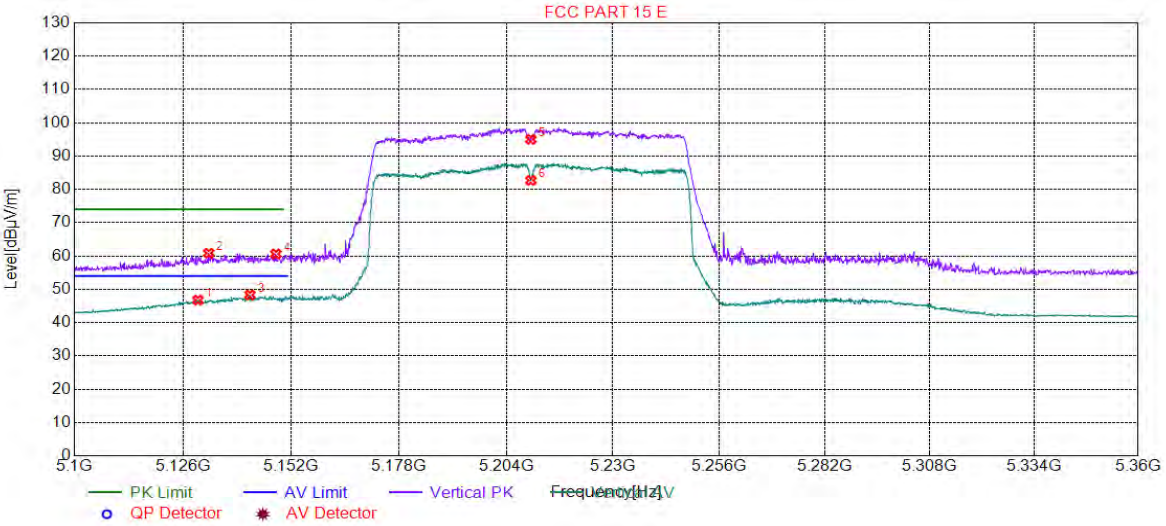
4.10.1.79 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5129.524	46.78	54.00	7.22	254	193	Vertical
2	5132.126	60.87	74.00	13.13	264	198	Vertical
3	5142.011	48.33	54.00	5.67	218	193	Vertical
4	5148.254	60.64	74.00	13.36	244	198	Vertical
5	5210.000	95.04	0.00	-95.04	248	193	Vertical
6	5210.000	82.68	0.00	-82.68	241	188	Vertical

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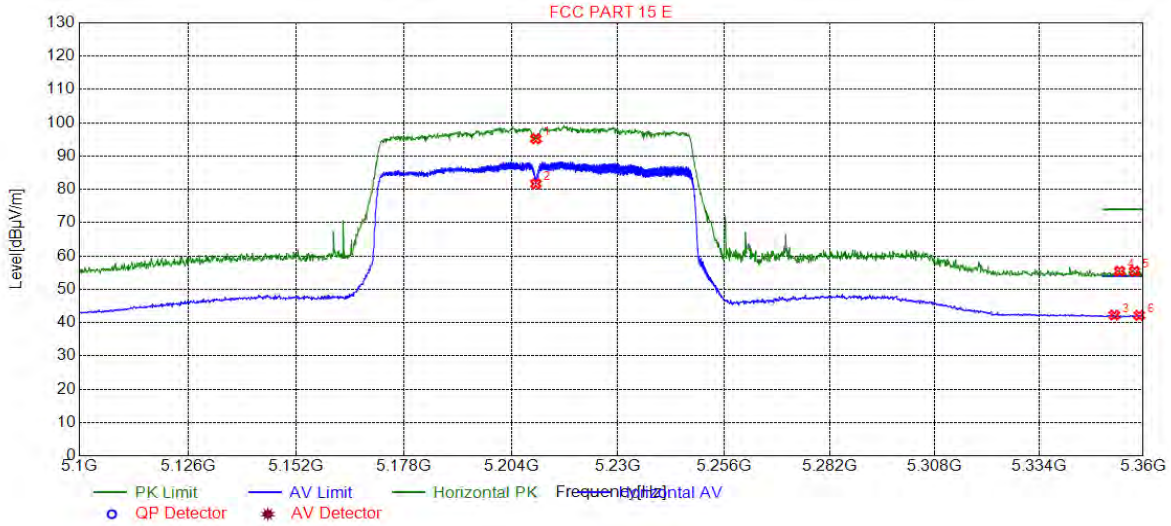
4.10.1.80 **802.11AC80_Channel 42**

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	95.18	0.00	-95.18	228	217	Horizontal
2	5210.000	81.70	0.00	-81.70	234	226	Horizontal
3	5352.846	42.26	54.00	11.74	106	173	Horizontal
4	5354.147	55.47	74.00	18.53	133	221	Horizontal
5	5357.919	55.45	74.00	18.55	213	307	Horizontal
6	5359.089	42.18	54.00	11.82	124	231	Horizontal

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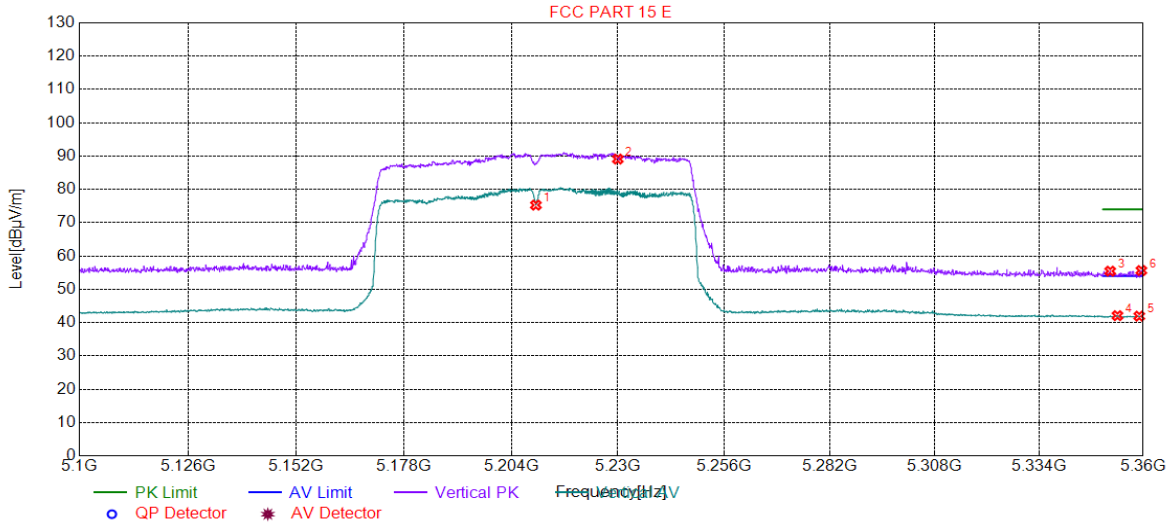
4.10.1.81 **802.11AC80_Channel 42**

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	75.29	0.00	-75.29	209	49	Vertical
2	5230.000	89.11	0.00	-89.11	208	78	Vertical
3	5351.805	55.46	74.00	18.54	226	34	Vertical
4	5353.626	42.11	54.00	11.89	254	278	Vertical
5	5359.089	41.97	54.00	12.03	235	344	Vertical
6	5359.609	55.66	74.00	18.34	191	111	Vertical

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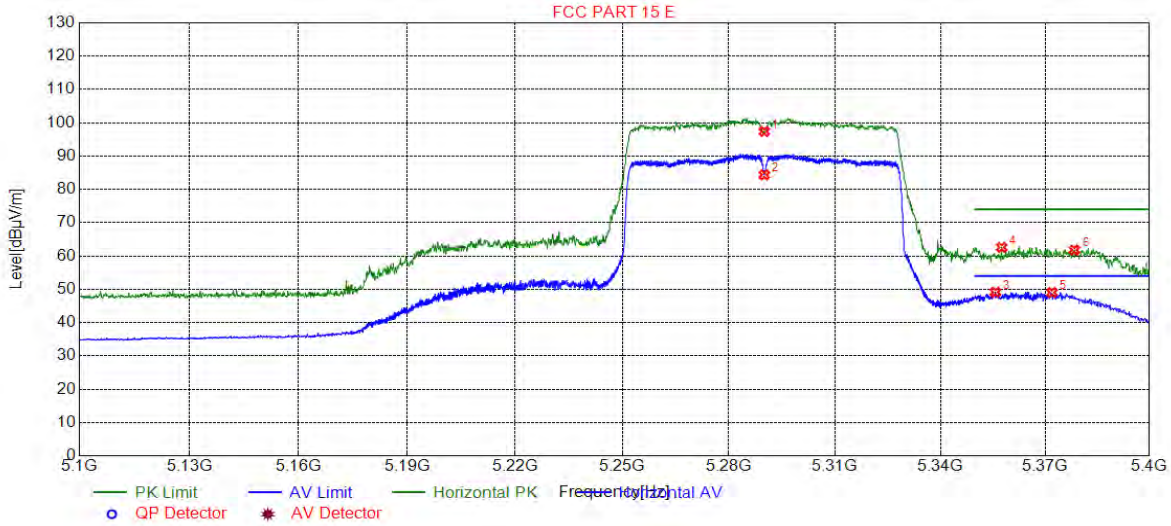
4.10.1.82 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	97.38	0.00	-97.38	130	210	Horizontal
2	5290.000	84.34	0.00	-84.34	238	204	Horizontal
3	5355.727	49.16	54.00	4.84	185	204	Horizontal
4	5357.528	62.60	74.00	11.40	242	190	Horizontal
5	5371.936	49.06	54.00	4.94	244	210	Horizontal
6	5378.389	61.84	74.00	12.16	133	204	Horizontal

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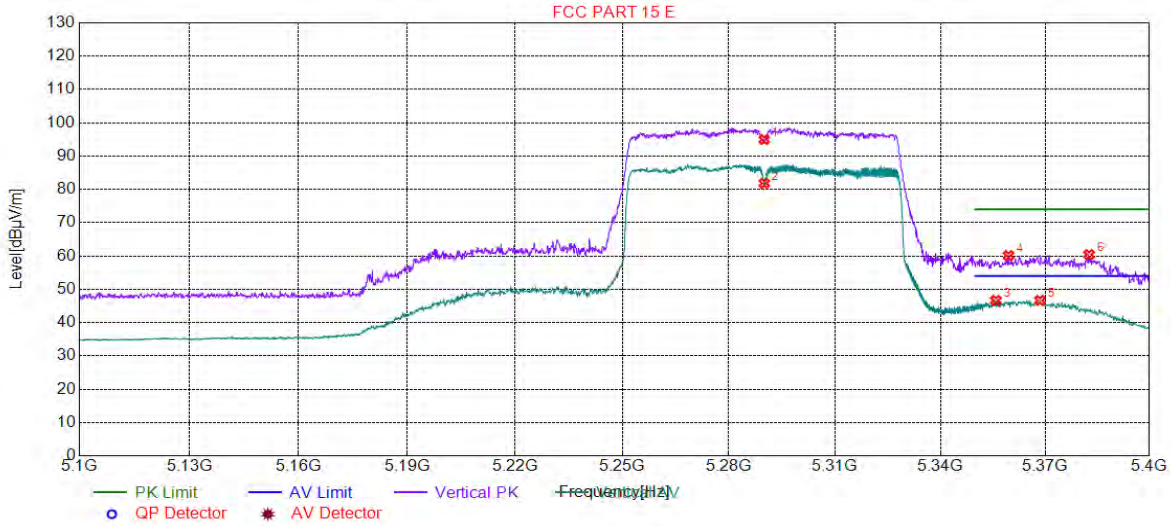
4.10.1.83 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	94.97	0.00	-94.97	213	186	Vertical
2	5290.000	81.84	0.00	-81.84	229	186	Vertical
3	5355.877	46.70	54.00	7.30	157	191	Vertical
4	5359.479	60.15	74.00	13.85	157	186	Vertical
5	5368.484	46.68	54.00	7.32	272	191	Vertical
6	5382.591	60.46	74.00	13.54	172	186	Vertical

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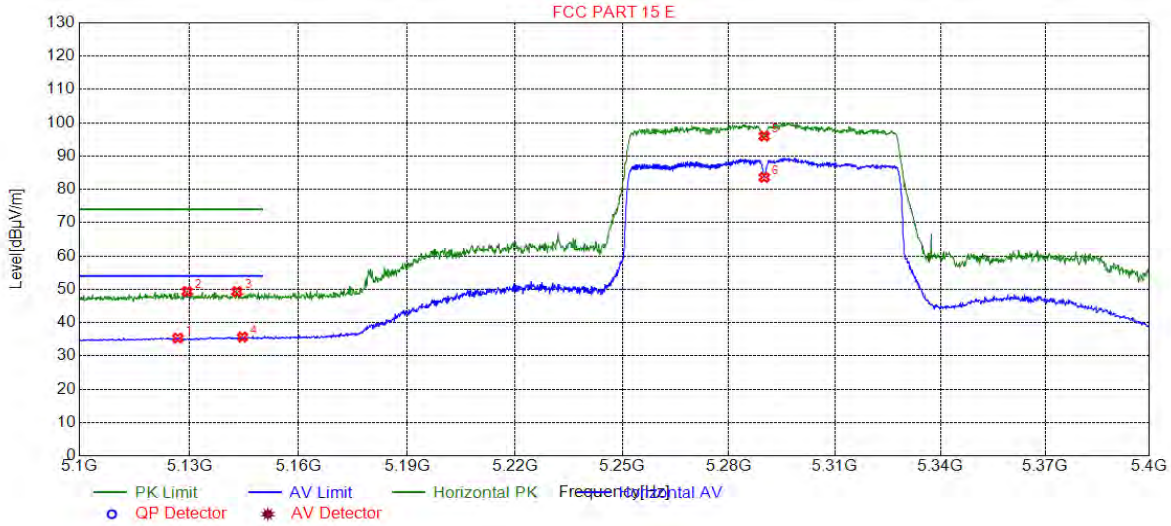
4.10.1.84 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5126.863	35.37	54.00	18.63	110	217	Horizontal
2	5129.414	49.36	74.00	24.64	115	202	Horizontal
3	5143.071	49.31	74.00	24.69	165	86	Horizontal
4	5144.572	35.68	54.00	18.32	119	208	Horizontal
5	5290.000	95.99	0.00	-95.99	144	208	Horizontal
6	5290.000	83.62	0.00	-83.62	138	208	Horizontal

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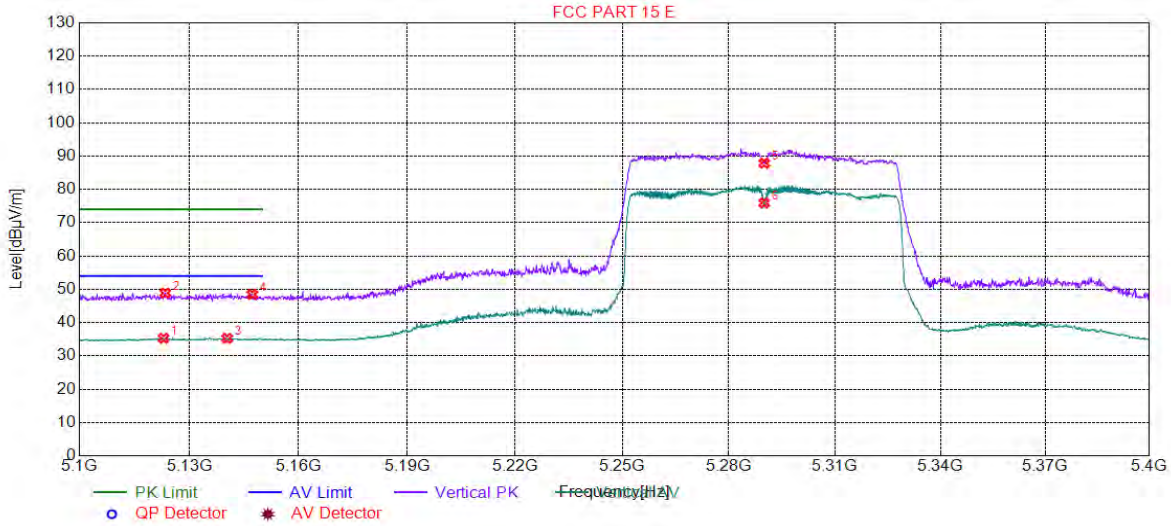
4.10.1.85 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.961	35.34	54.00	18.66	218	79	Vertical
2	5123.411	48.90	74.00	25.10	197	136	Vertical
3	5140.370	35.29	54.00	18.71	177	266	Vertical
4	5147.273	48.51	74.00	25.49	215	16	Vertical
5	5290.000	87.86	0.00	-87.86	206	84	Vertical
6	5290.000	75.94	0.00	-75.94	206	79	Vertical

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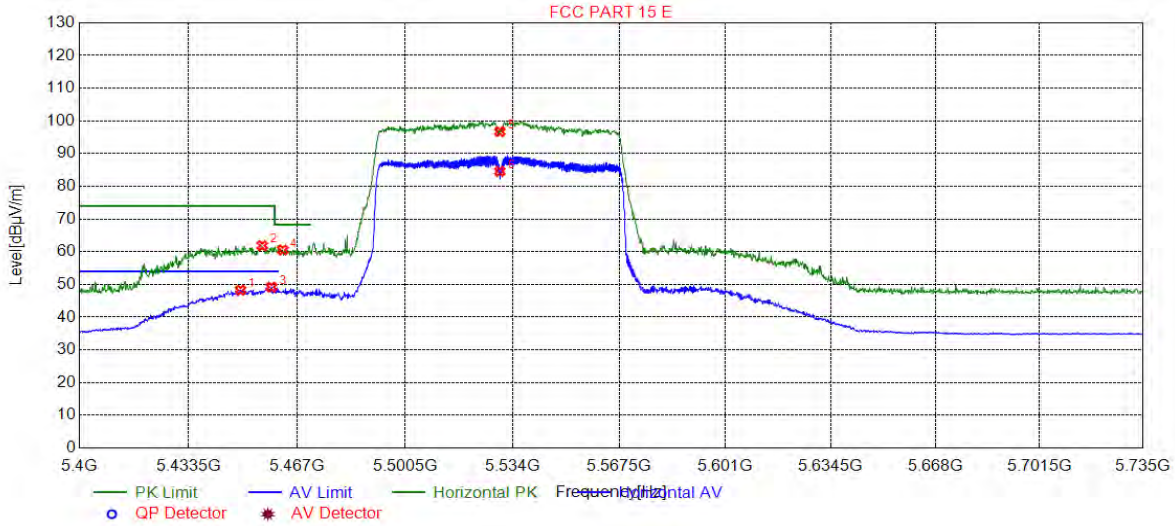
4.10.1.86 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5449.437	48.27	54.00	5.73	163	206	Horizontal
2	5456.140	61.87	74.00	12.13	205	197	Horizontal
3	5458.989	49.20	54.00	4.80	135	206	Horizontal
4	5462.508	60.55	68.30	7.75	117	206	Horizontal
5	5530.000	96.72	0.00	-96.72	206	206	Horizontal
6	5530.000	84.60	0.00	-84.60	226	206	Horizontal

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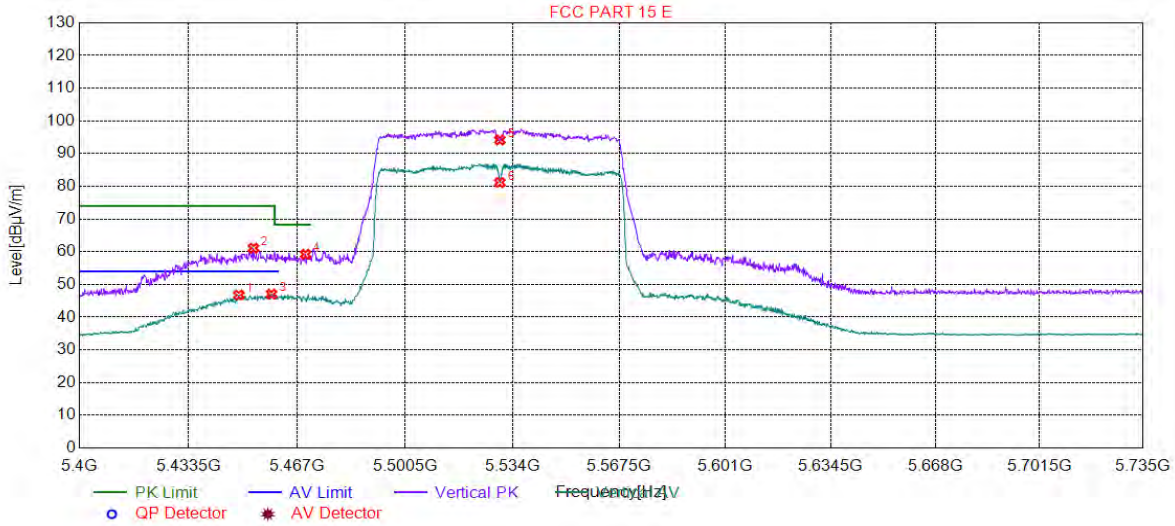
4.10.1.87 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5448.934	46.78	54.00	7.22	154	188	Vertical
2	5453.459	61.09	74.00	12.91	270	188	Vertical
3	5458.989	47.05	54.00	6.95	166	188	Vertical
4	5469.547	59.22	68.30	9.08	168	193	Vertical
5	5530.000	94.20	0.00	-94.20	230	188	Vertical
6	5530.000	81.15	0.00	-81.15	223	193	Vertical

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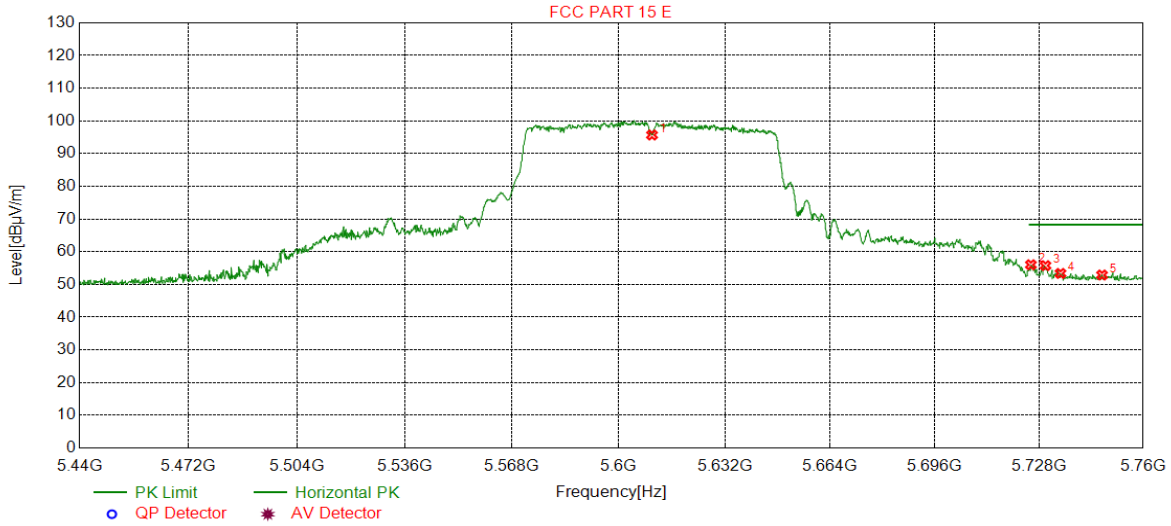
4.10.1.88 **802.11AC80_Channel 122**

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	95.70	0.00	-95.70	128	202	Horizontal
2	5725.422	56.04	68.30	12.26	191	28	Horizontal
3	5729.905	55.77	68.30	12.53	105	21	Horizontal
4	5734.547	53.39	68.30	14.91	197	46	Horizontal
5	5747.353	52.90	68.30	15.40	140	344	Horizontal

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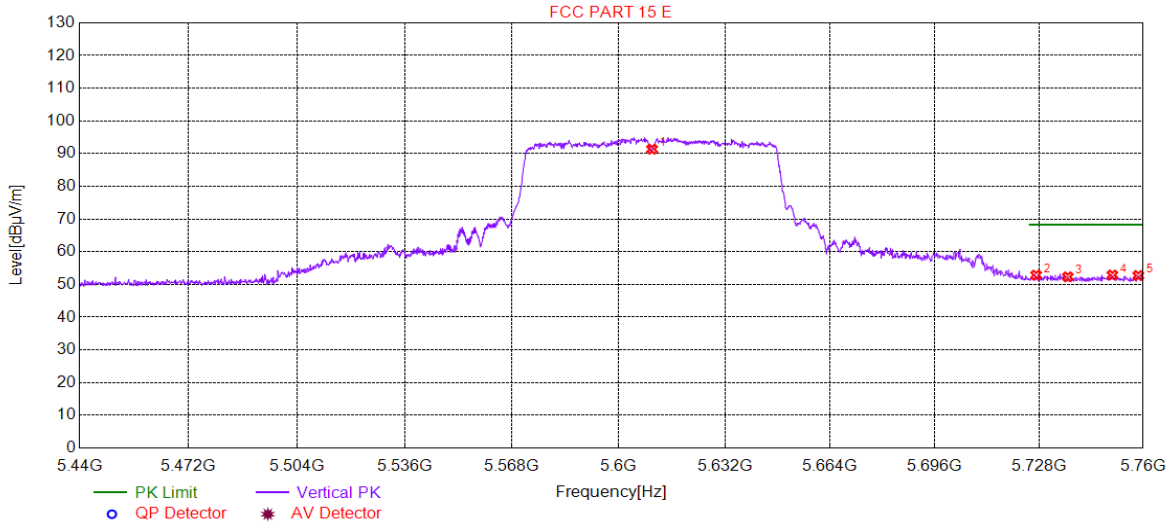
4.10.1.89 **802.11AC80_Channel 122**

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	91.37	0.00	-91.37	181	19	Vertical
2	5727.023	52.88	68.30	15.42	167	340	Vertical
3	5736.788	52.35	68.30	15.95	261	33	Vertical
4	5750.555	52.90	68.30	15.40	192	97	Vertical
5	5758.559	52.73	68.30	15.57	204	40	Vertical

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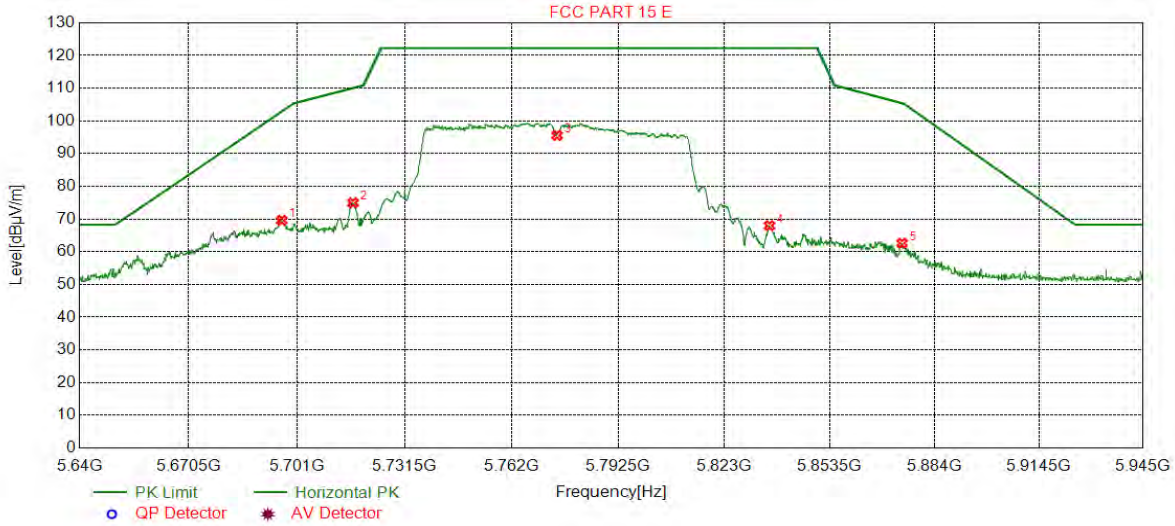
4.10.1.90 **802.11AC80_Channel 155**

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5696.758	69.60	102.90	33.30	162	20	Horizontal
2	5716.898	74.98	110.03	35.05	224	337	Horizontal
3	5775.000	95.59	122.30	26.71	220	45	Horizontal
4	5836.060	67.97	122.30	54.33	149	211	Horizontal
5	5874.509	62.63	105.44	42.81	130	207	Horizontal

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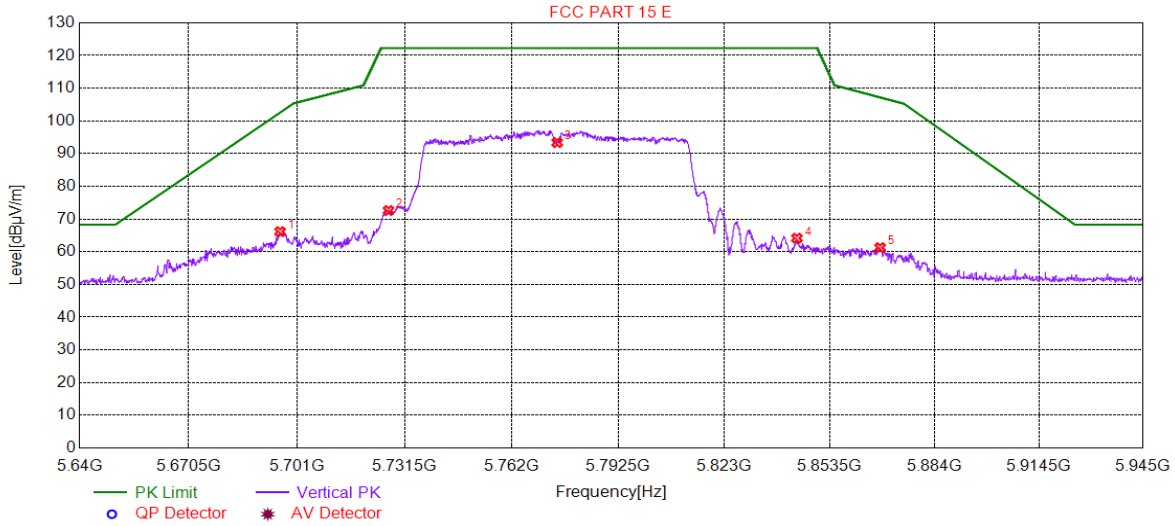
4.10.1.91 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5696.300	66.17	102.56	36.39	297	34	Vertical
2	5726.968	72.63	122.30	49.67	250	30	Vertical
3	5775.000	93.40	122.30	28.90	272	30	Vertical
4	5843.994	64.16	122.30	58.14	225	95	Vertical
5	5868.101	61.27	107.23	45.96	244	34	Vertical

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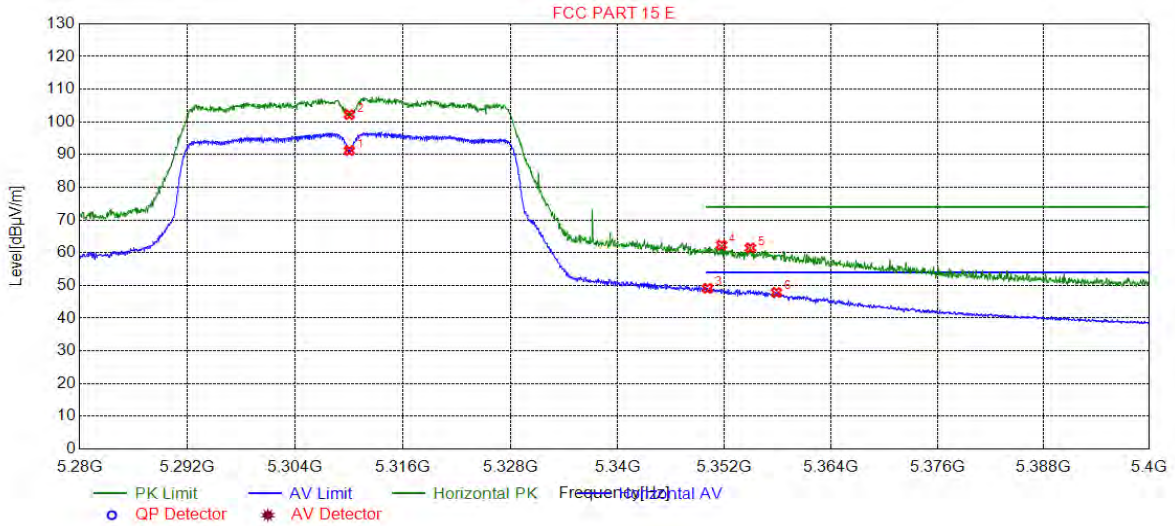
Test on the worst case:

4.10.1.92 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	91.25	0.00	-91.25	244	234	Horizontal
2	5310.000	102.24	0.00	-102.24	189	238	Horizontal
3	5350.115	49.11	54.00	4.89	120	238	Horizontal
4	5351.675	62.34	74.00	11.66	213	238	Horizontal
5	5354.917	61.49	74.00	12.51	208	238	Horizontal
6	5357.858	47.89	54.00	6.11	162	238	Horizontal

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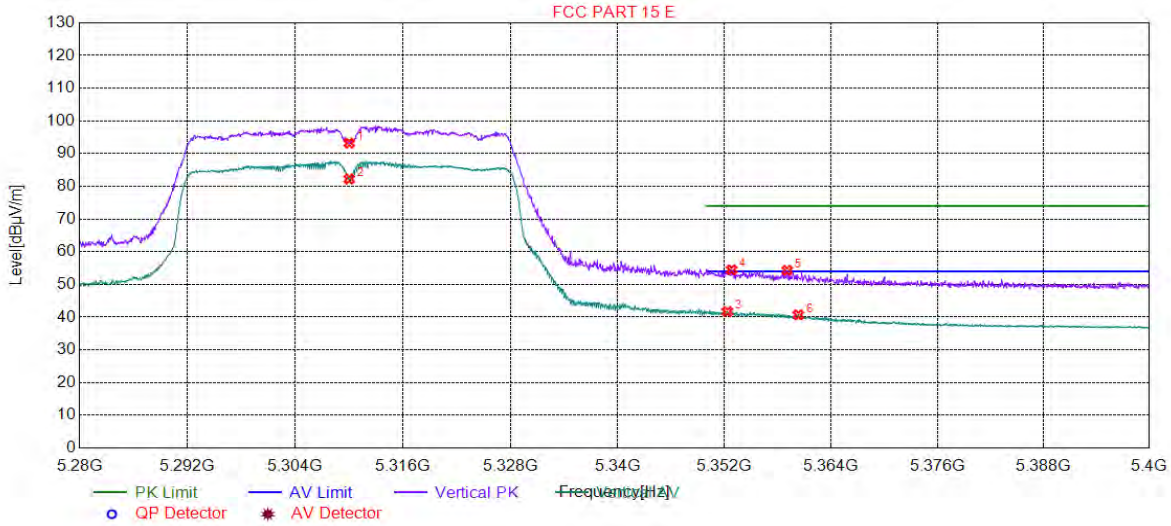
4.10.1.93 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	93.20	0.00	-93.20	178	316	Vertical
2	5310.000	82.26	0.00	-82.26	256	316	Vertical
3	5352.336	41.69	54.00	12.31	281	320	Vertical
4	5352.816	54.49	74.00	19.51	256	320	Vertical
5	5359.059	54.32	74.00	19.68	293	320	Vertical
6	5360.320	40.71	54.00	13.29	167	320	Vertical

Final Data List

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
All modes have been tested, but only the worst case data displayed in this report.

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4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.009345	5825.001199
V max(V)	5180.012295	5825.009792
V min(V)	5180.018533	5825.011026
Max. Deviation Frequency	0.018533	0.011026
Max. Frequency Error (ppm)	3.577893	1.892941

4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency (MHz)	
	5180	5825
-5	5180.000734	5825.004603
5	5180.010448	5825.014376
15	5180.018875	5825.019858
25	5180.025197	5825.026784
35	5180.027947	5825.028960
45	5180.031161	5825.032557
50	5180.036126	5825.038227
Max. Deviation Frequency	0.036126	0.038227
Max. Frequency Error (ppm)	6.974128	6.562510

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4.12Dynamic Frequency Selection

4.12.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	**Master Device or Client with Radar Detection**	**Client Without Radar Detection**
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

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4.12.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. **Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

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4.12.4 Test plots

4.12.4.1 DFS Detection Thresholds

4.12.4.1.1 Test Result

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-62.09	-62.00	PASS
	5500	Type0	-63.10	-62.00	PASS
11AC80SISO	5290	Type0	-64.07	-62.00	PASS
	5530	Type0	-63.32	-62.00	PASS

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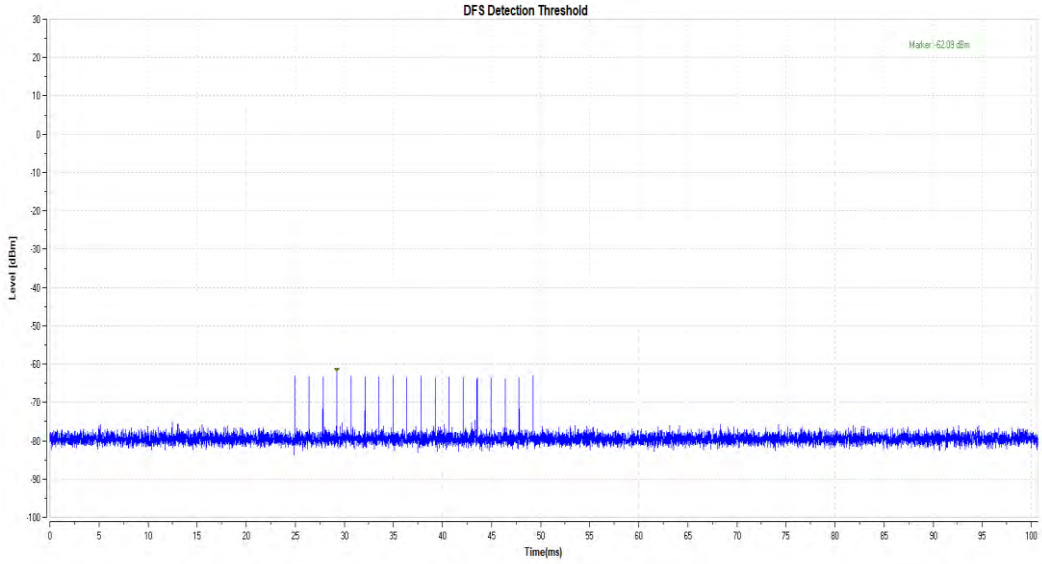
4.12.4.1.2 Test Graphs

11AC20SISO_5320_Type0



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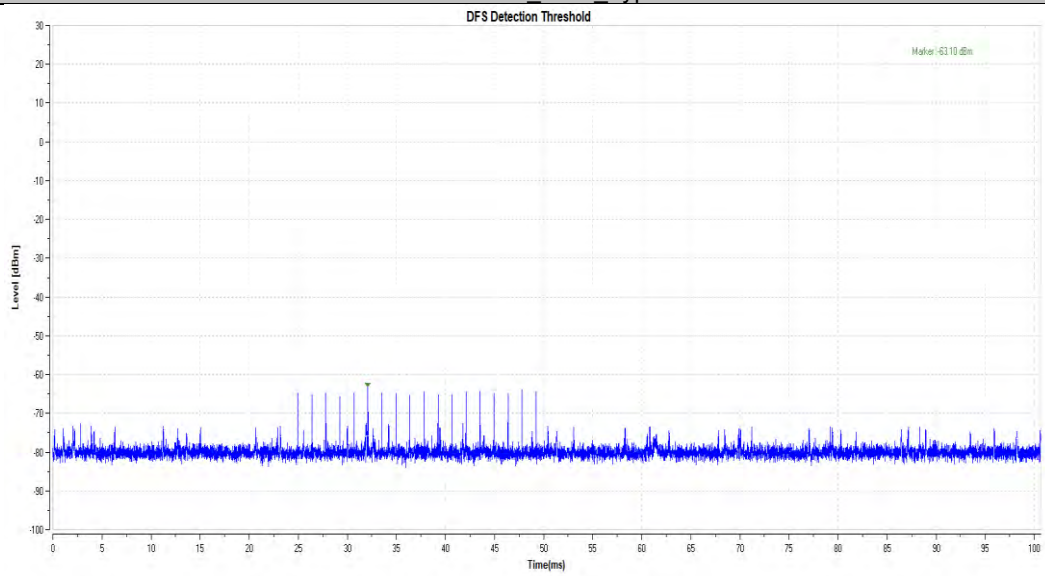

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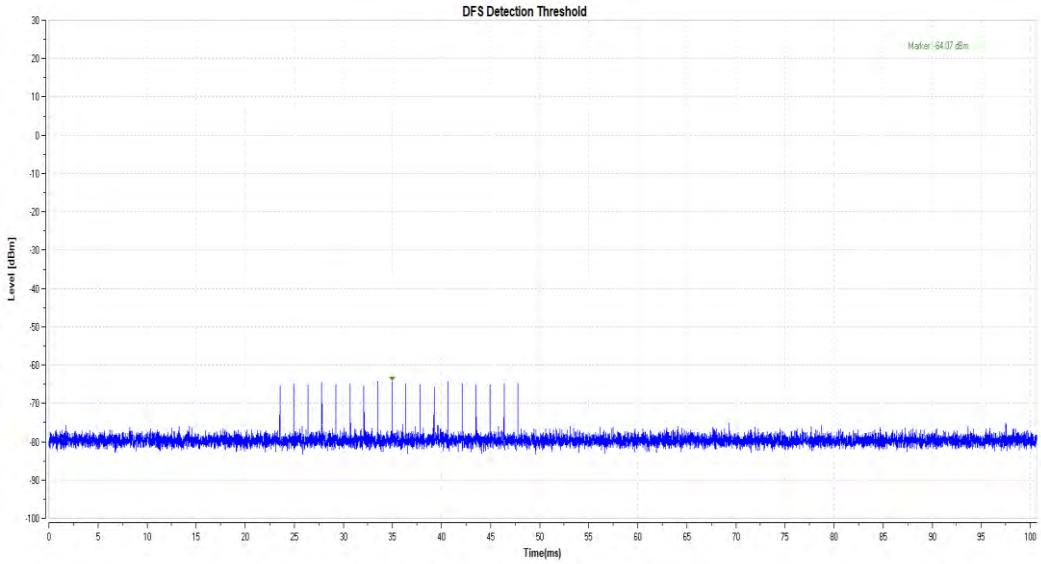
11AC80SISO_5290_Type0



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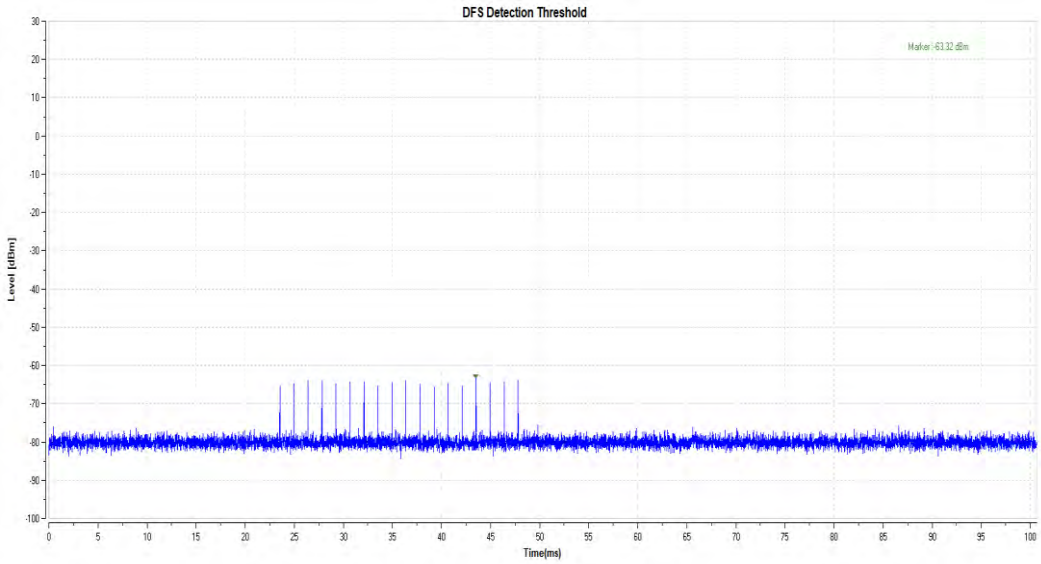

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4.12.4.2 Channel Move Time and Channel Closing Transmission Time

4.12.4.2.1 Test Result

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	0	60	1128.4	10000	PASS
	5500	0	60	1402	10000	PASS
11AC80SISO	5290	0	60	203.8	10000	PASS
	5530	0	60	206.7	10000	PASS

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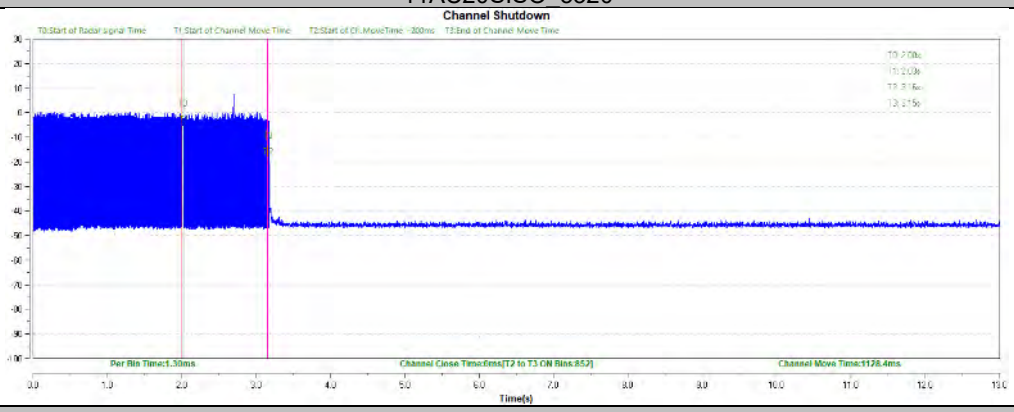
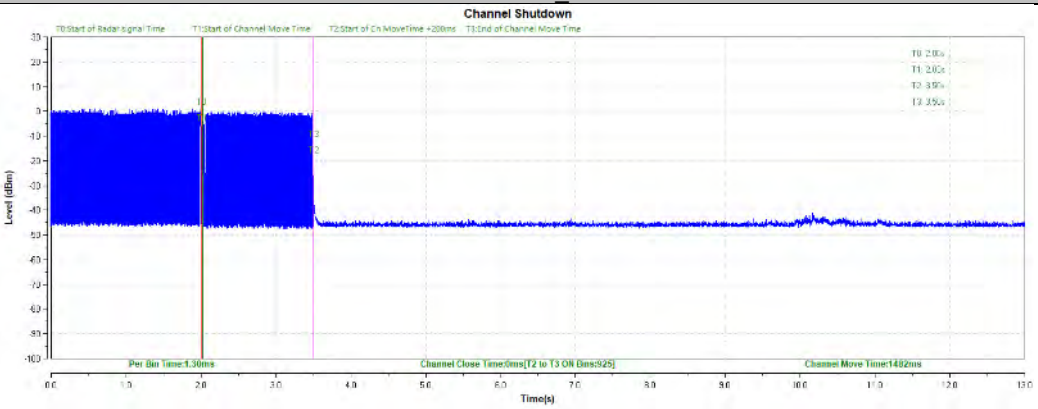
4.12.4.2.2 Test Graphs

11AC20SISO_5320



11AC20SISO_5500



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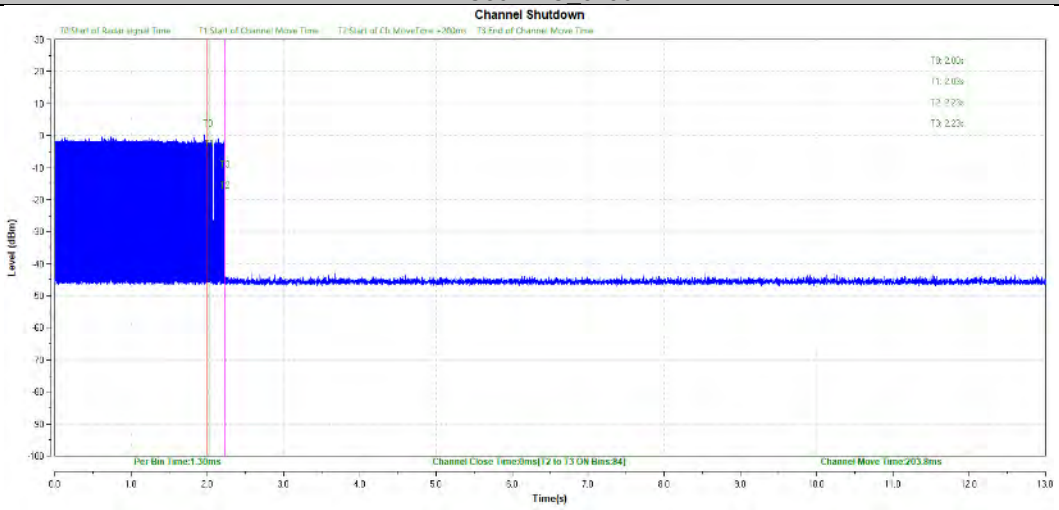
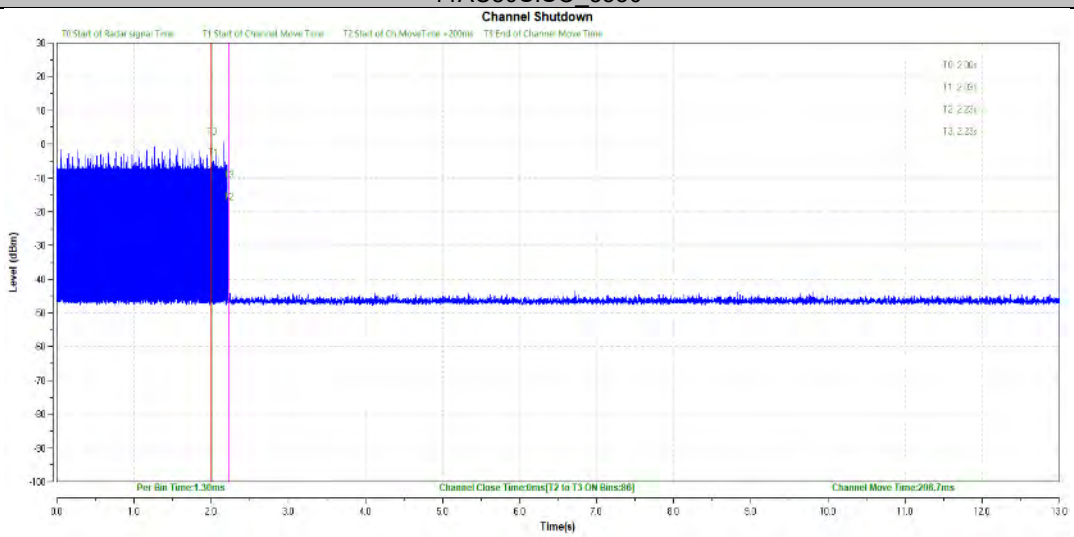
11AC80SISO_5290



11AC80SISO_5530



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4.12.4.3 Non-Occupancy Period

4.12.4.3.1 Test Result

TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	>=1800	PASS
	5500	see test graph	>=1800	PASS
11AC80SISO	5290	see test graph	>=1800	PASS
	5530	see test graph	>=1800	PASS

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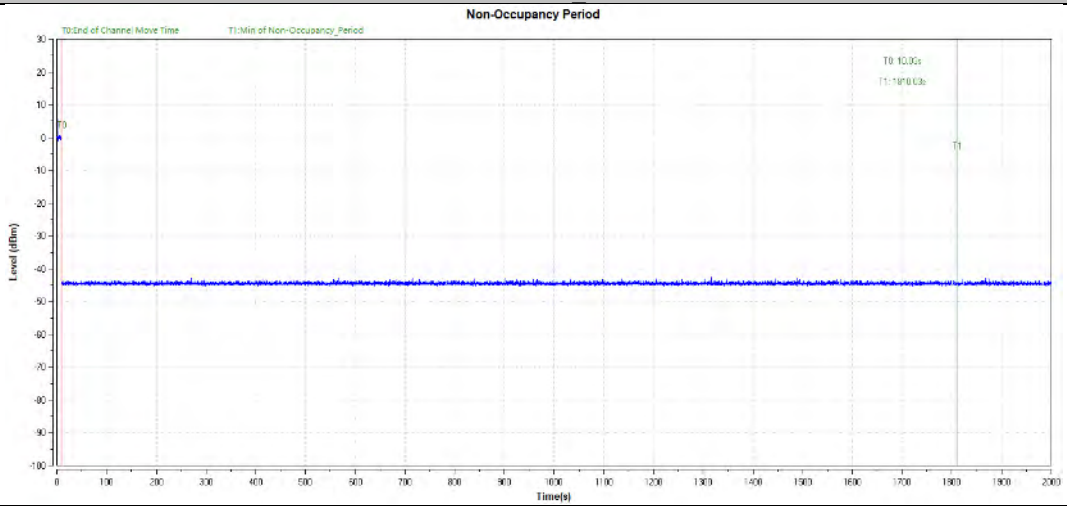
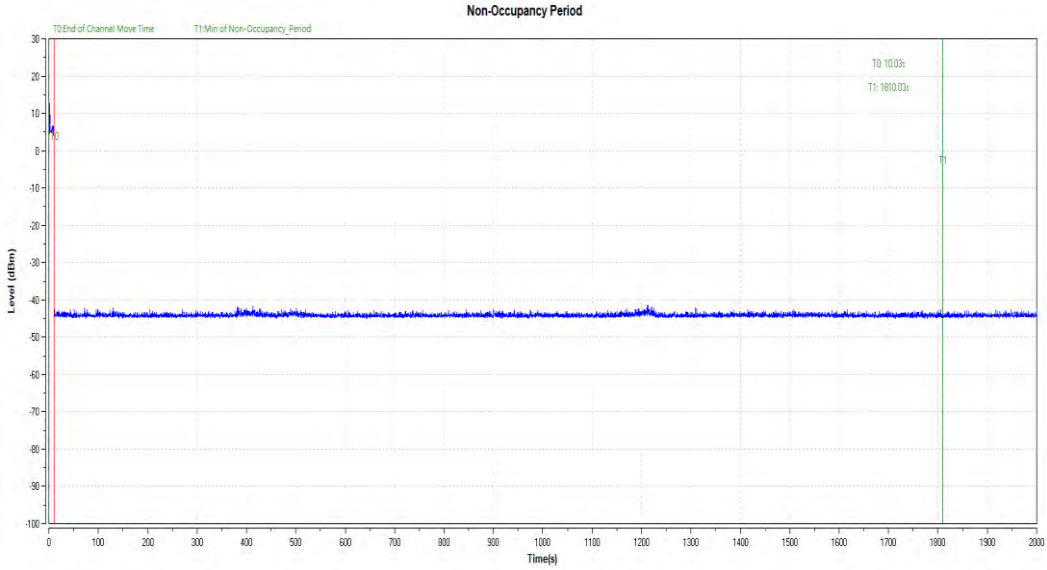
4.12.4.3.2 Test Graphs

11AC20SISO_5320



11AC20SISO_5500



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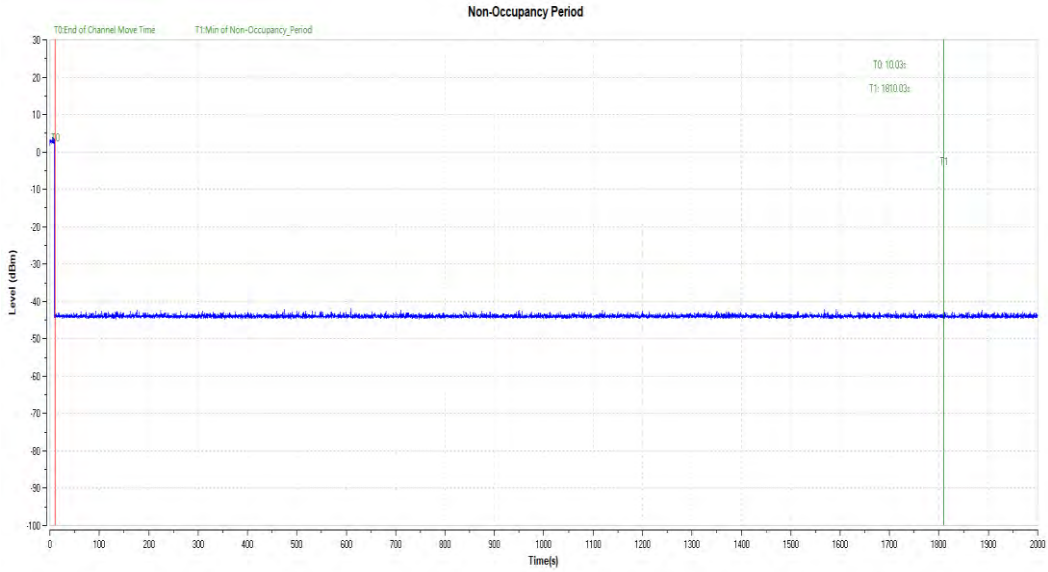
11AC80SISO_5290



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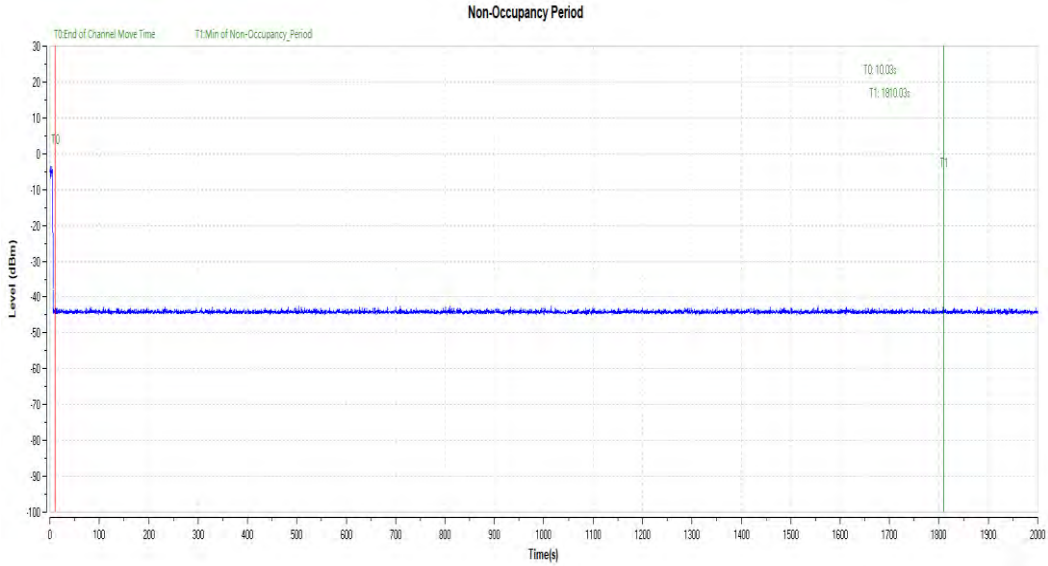

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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)

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6 Equipment List

RF conducted test					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2020/7/14	2021/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

CE Test System					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-05	2020-04-12	2021-04-11
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR

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RSE Test System					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2020-04-15	2021-04-14
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-05	2020-04-12	2021-04-11
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR

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7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for AR/2020/C0004.

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Emission Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.830	5168.630	5191.460	---	PASS
		5200	22.860	5188.690	5211.550	---	PASS
		5240	22.920	5228.630	5251.550	---	PASS
		5260	23.250	5248.630	5271.880	---	PASS
		5300	24.180	5288.240	5312.420	---	PASS
		5320	23.970	5308.540	5332.510	---	PASS
		5500	23.820	5488.570	5512.390	---	PASS
		5580	22.680	5568.960	5591.640	---	PASS
		5700	23.490	5688.840	5712.330	---	PASS
		5745	21.720	5734.200	5755.920	---	PASS
		5785	21.870	5774.110	5795.980	---	PASS
		5825	21.660	5814.230	5835.890	---	PASS
11N20SISO	Ant1	5180	23.460	5168.480	5191.940	---	PASS
		5200	23.640	5188.450	5212.090	---	PASS
		5240	23.460	5228.360	5251.820	---	PASS
		5260	23.340	5248.480	5271.820	---	PASS
		5300	24.450	5288.570	5313.020	---	PASS
		5320	24.570	5308.360	5332.930	---	PASS
		5500	28.650	5486.320	5514.970	---	PASS
		5580	23.460	5568.540	5592.000	---	PASS
		5700	24.450	5688.480	5712.930	---	PASS
		5745	22.890	5733.690	5756.580	---	PASS
		5785	22.980	5773.660	5796.640	---	PASS
		5825	23.100	5813.720	5836.820	---	PASS
11N40SISO	Ant1	5190	41.700	5169.360	5211.060	---	PASS
		5230	41.460	5209.300	5250.760	---	PASS
		5270	41.760	5249.300	5291.060	---	PASS
		5310	41.880	5289.240	5331.120	---	PASS
		5510	42.000	5489.060	5531.060	---	PASS
		5550	42.240	5528.880	5571.120	---	PASS

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		5670	43.500	5647.560	5691.060	---	PASS
		5755	42.180	5733.580	5775.760	---	PASS
		5795	41.820	5773.880	5815.700	---	PASS
11AC20SISO	Ant1	5180	23.760	5168.060	5191.820	---	PASS
		5200	23.340	5188.450	5211.790	---	PASS
		5240	22.650	5228.720	5251.370	---	PASS
		5260	24.780	5248.390	5273.170	---	PASS
		5300	23.430	5288.540	5311.970	---	PASS
		5320	24.510	5308.390	5332.900	---	PASS
		5500	22.860	5488.600	5511.460	---	PASS
		5580	23.280	5568.510	5591.790	---	PASS
		5700	24.390	5688.510	5712.900	---	PASS
		5745	23.640	5733.060	5756.700	---	PASS
		5745	23.670	5733.270	5756.940	---	PASS
		5785	22.710	5773.660	5796.370	---	PASS
		5825	23.400	5813.510	5836.910	---	PASS
11AC40SISO	Ant1	5190	41.940	5169.180	5211.120	---	PASS
		5230	41.880	5209.240	5251.120	---	PASS
		5270	48.240	5243.060	5291.300	---	PASS
		5310	51.240	5280.180	5331.420	---	PASS
		5510	50.820	5480.420	5531.240	---	PASS
		5550	50.700	5520.480	5571.180	---	PASS
		5670	45.060	5646.120	5691.180	---	PASS
		5755	41.880	5733.820	5775.700	---	PASS
		5795	41.820	5773.880	5815.700	---	PASS
11AC80SISO	Ant1	5210	83.400	5168.240	5251.640	---	PASS
		5290	83.040	5248.720	5331.760	---	PASS
		5530	110.520	5471.320	5581.840	---	PASS
		5610	94.440	5562.480	5656.920	---	PASS
		5775	84.240	5732.520	5816.760	---	PASS

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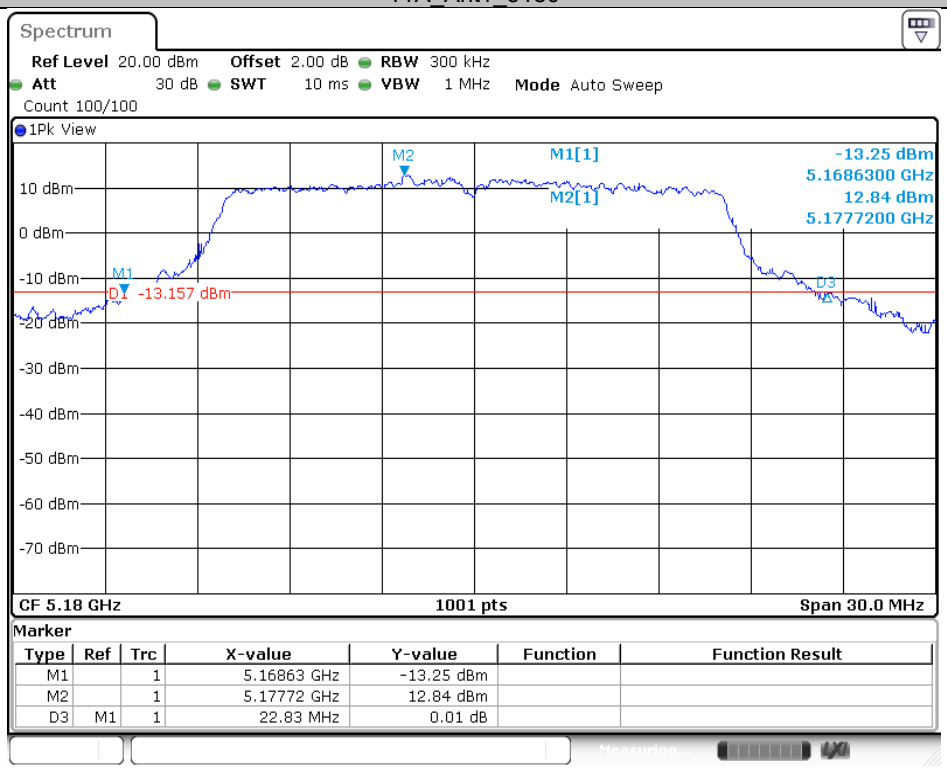
Test Graphs

11A_Ant1_5180



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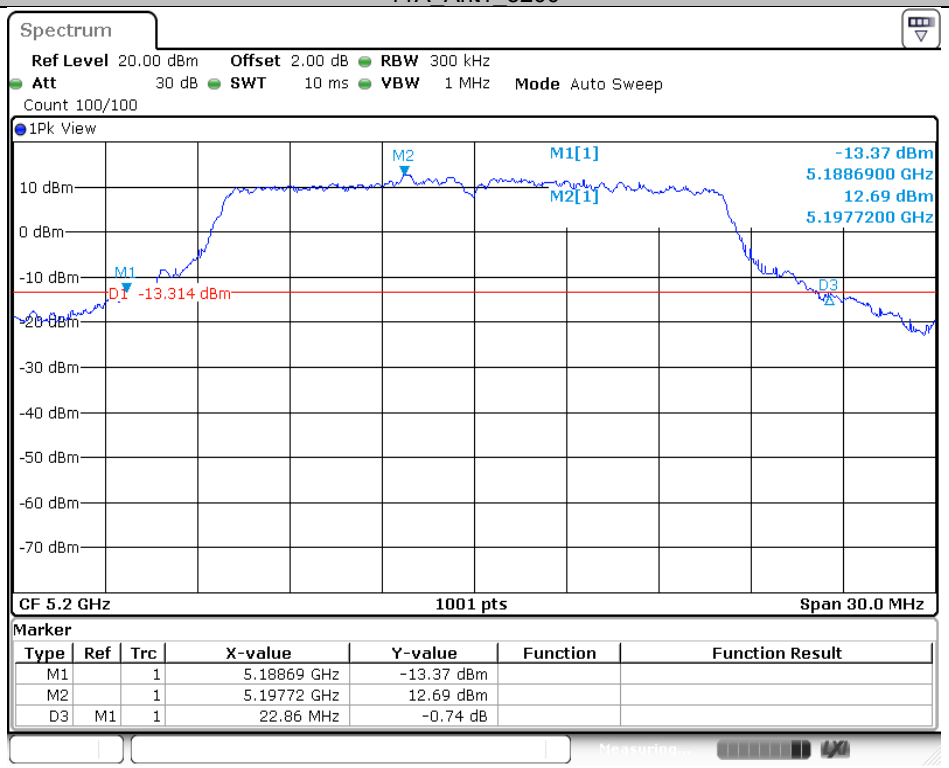

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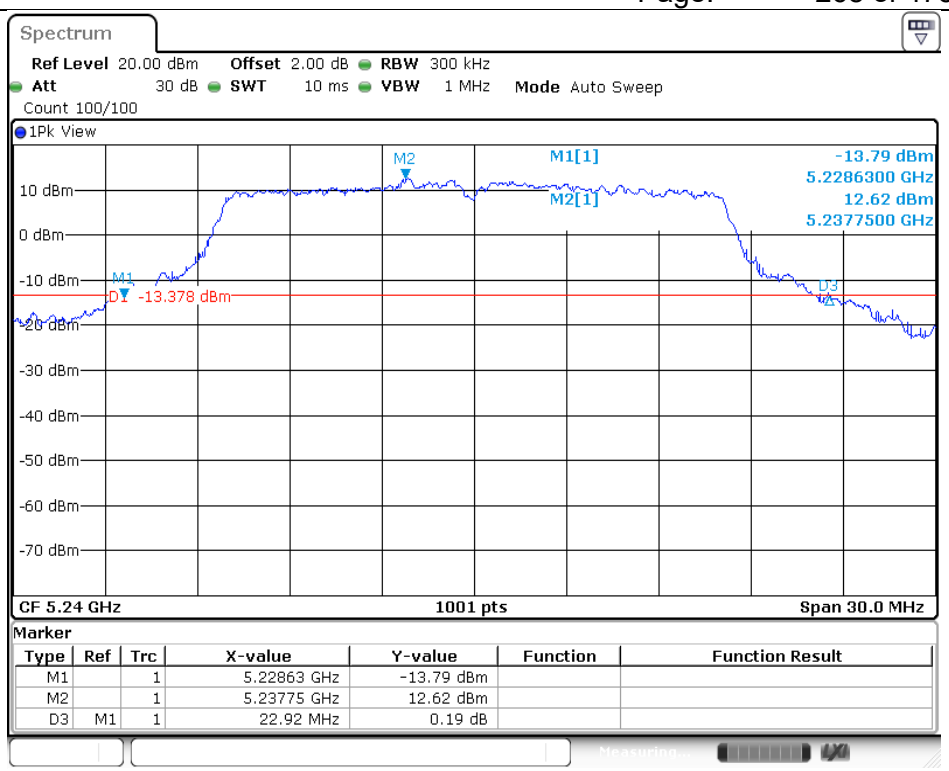

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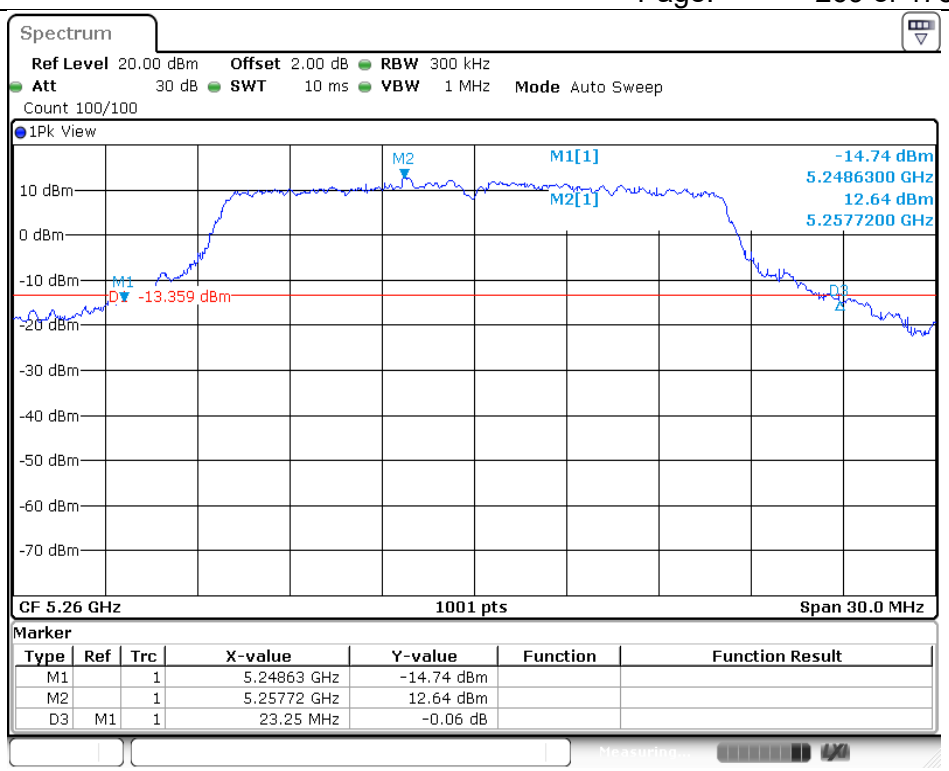

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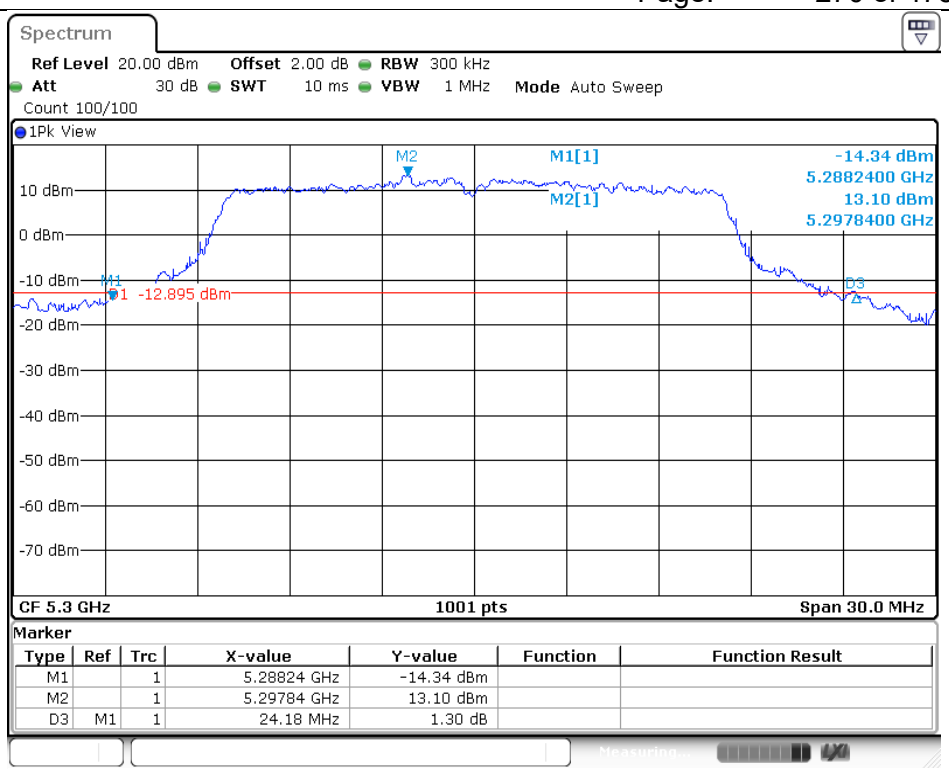

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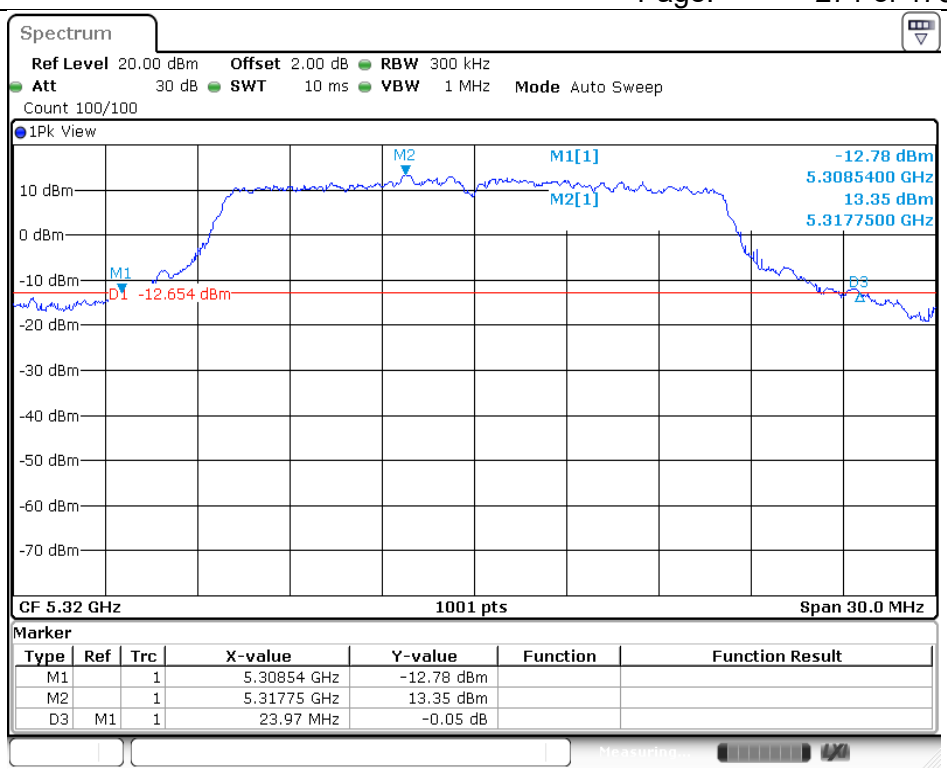

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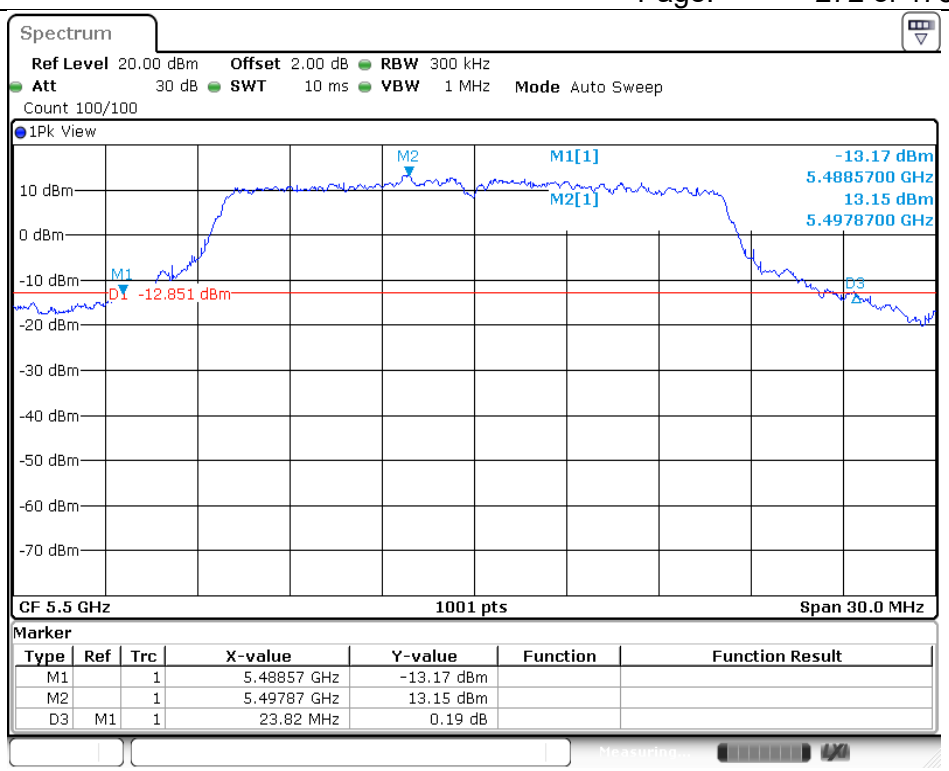

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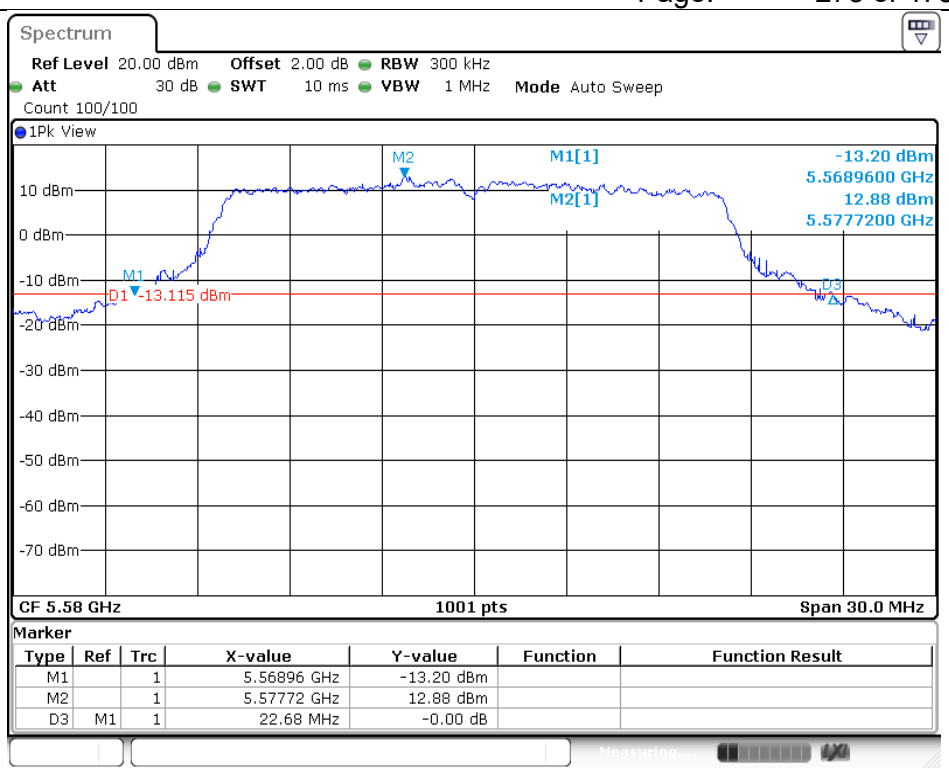

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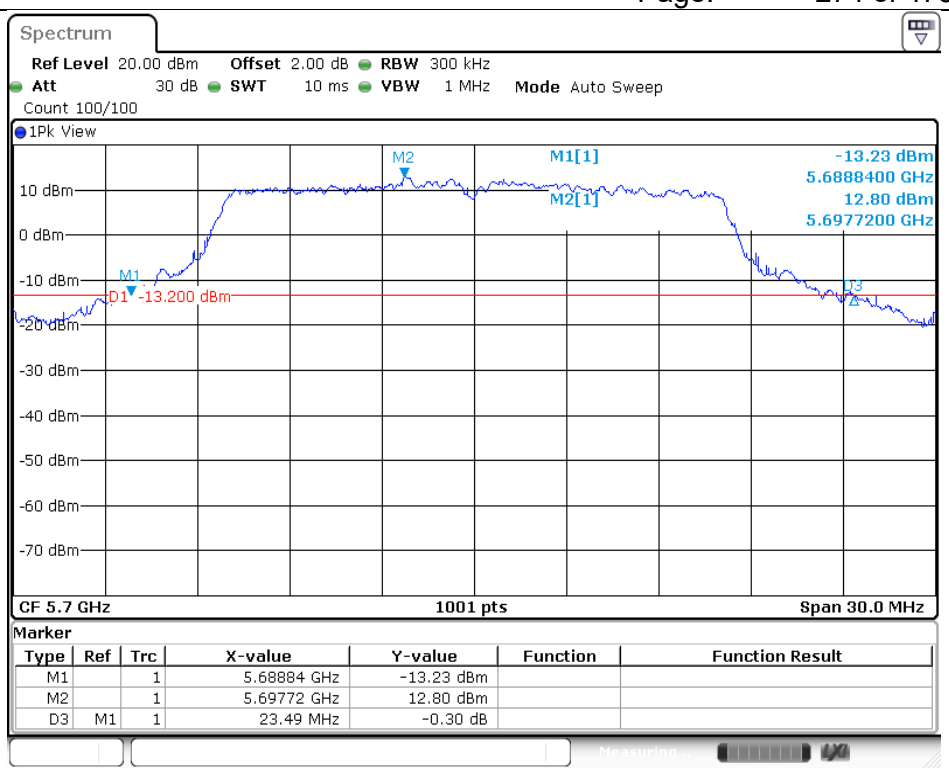

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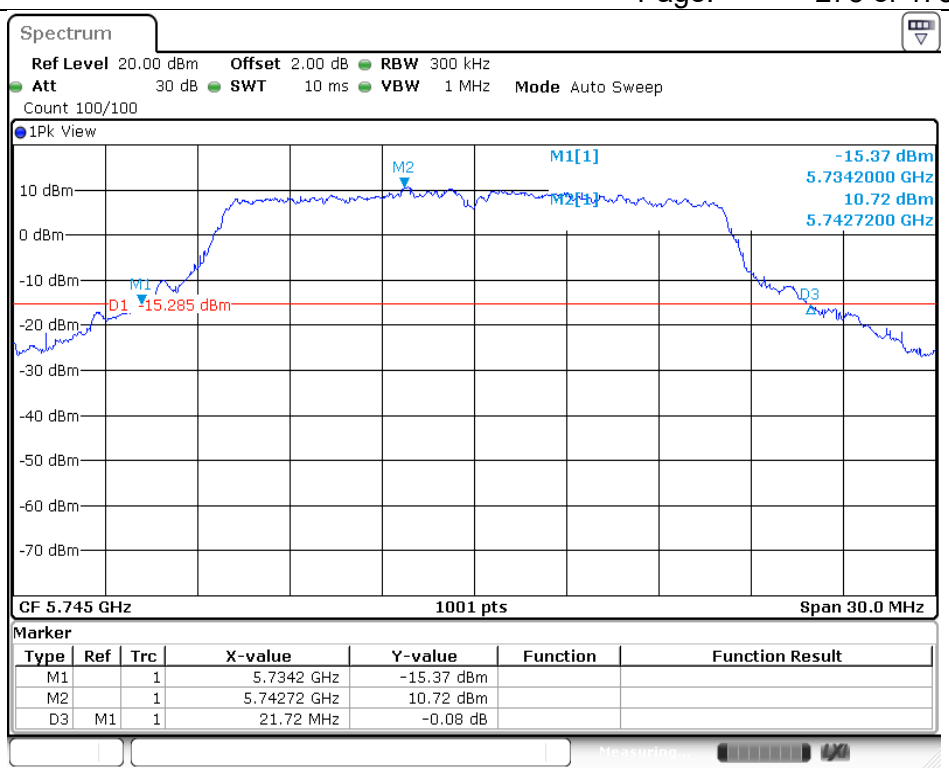

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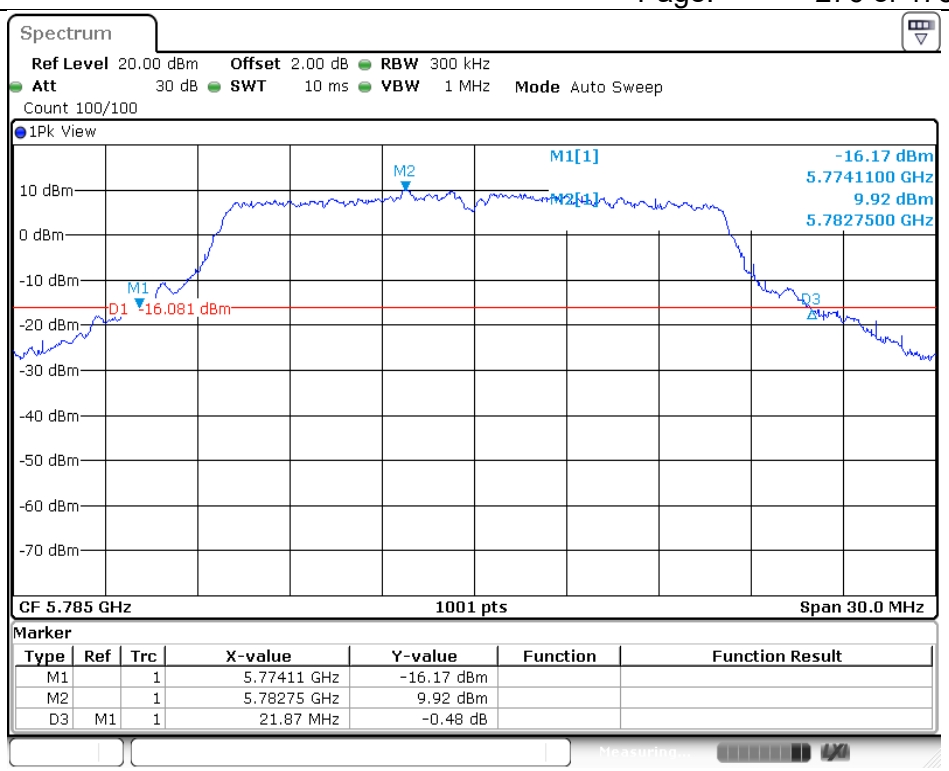

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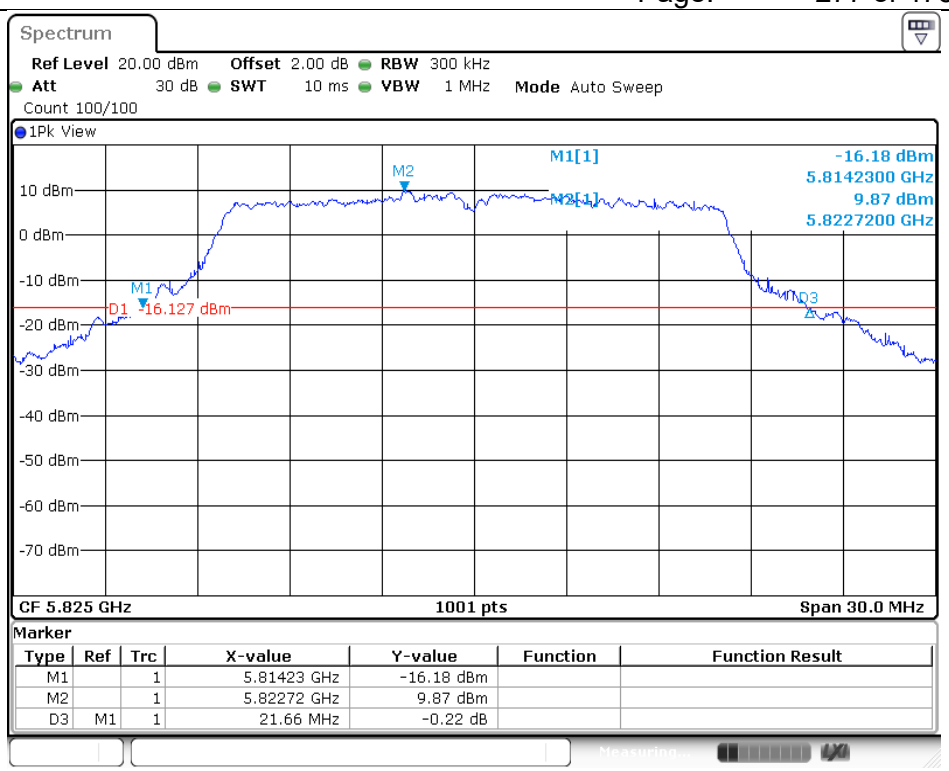

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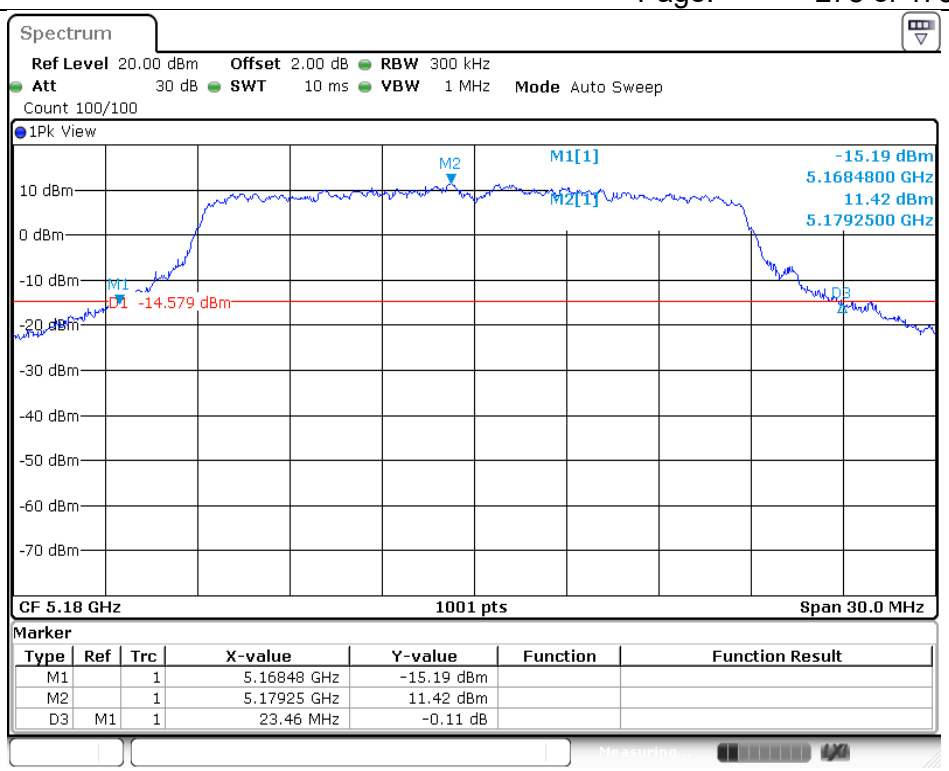

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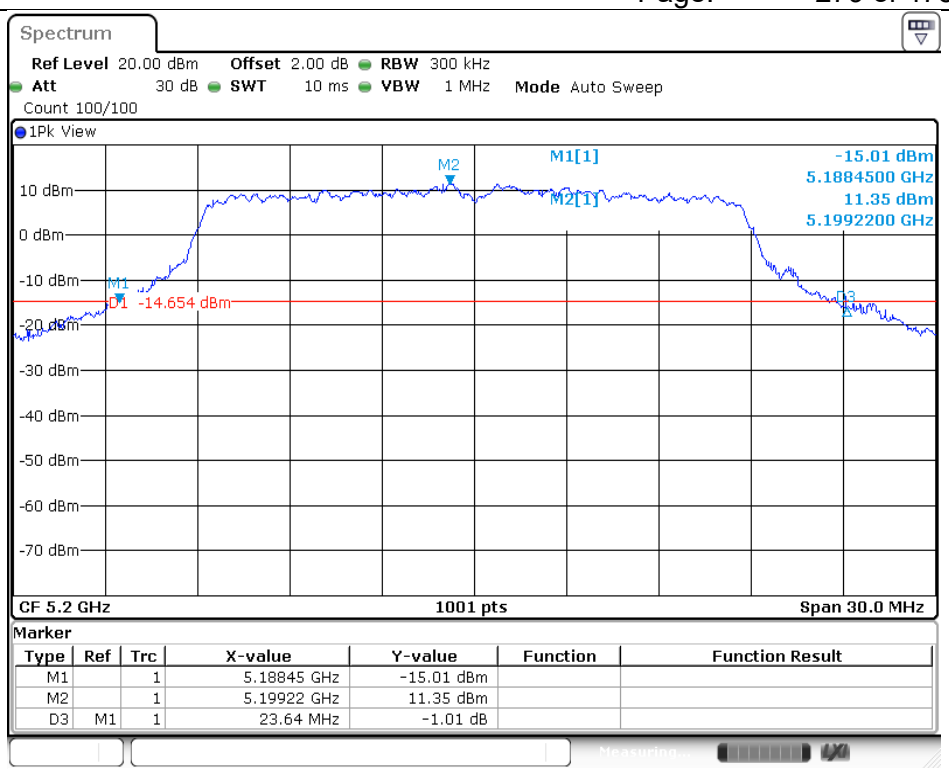

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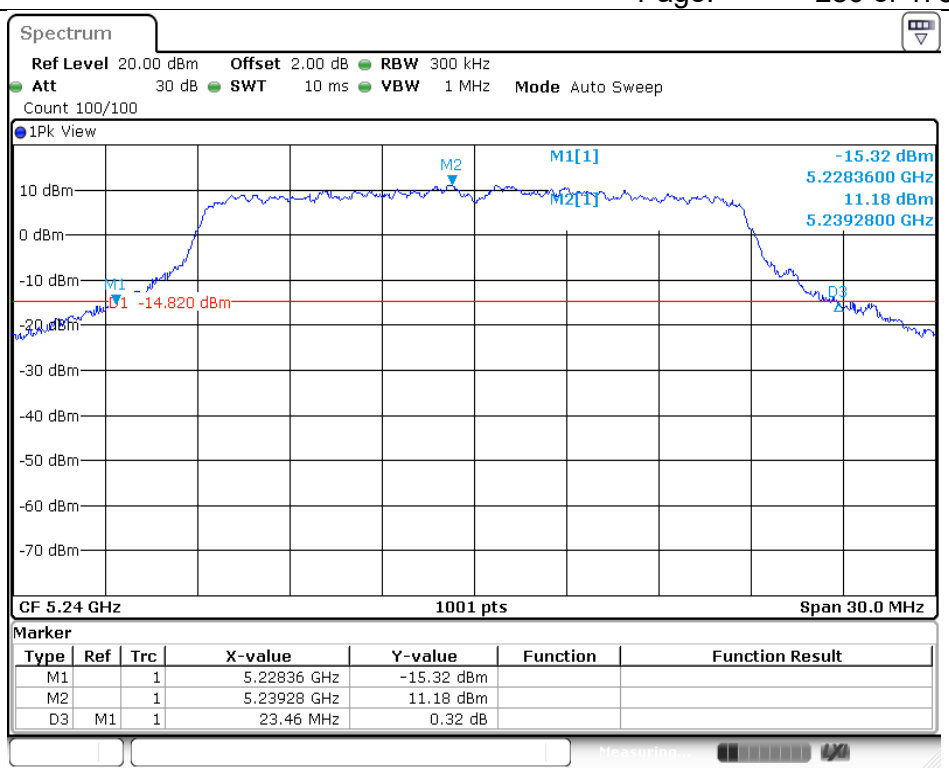

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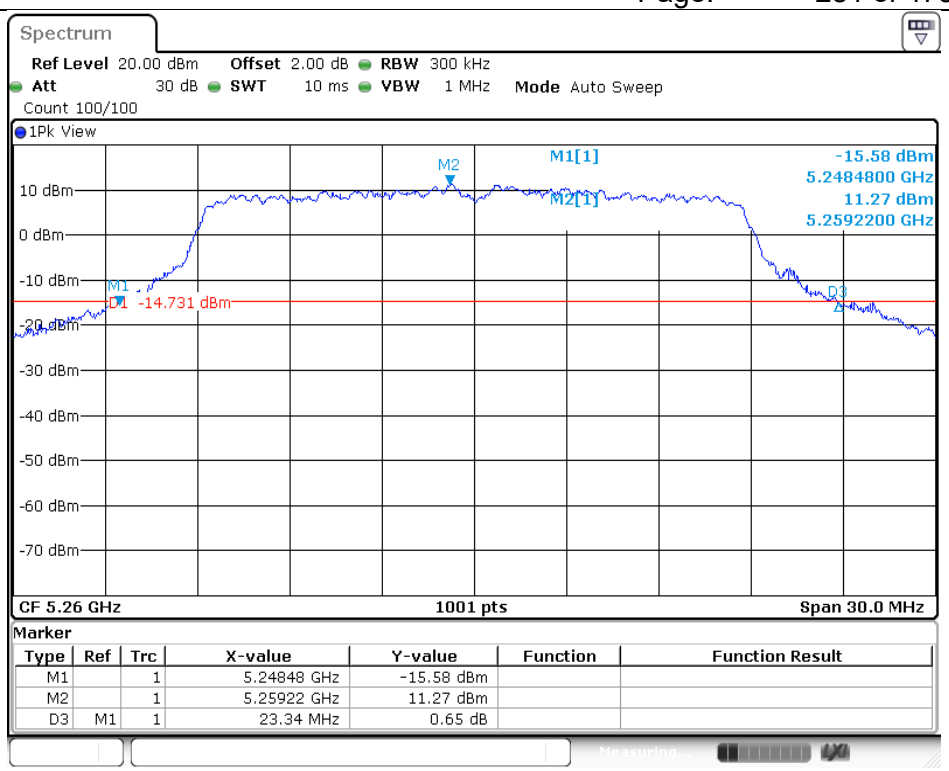

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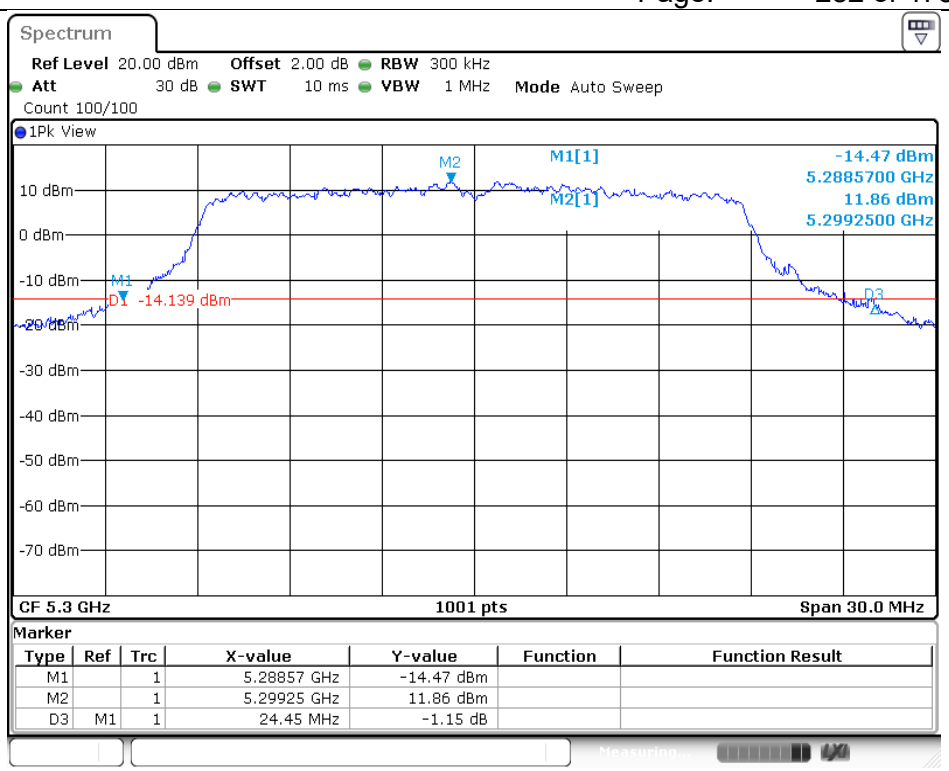

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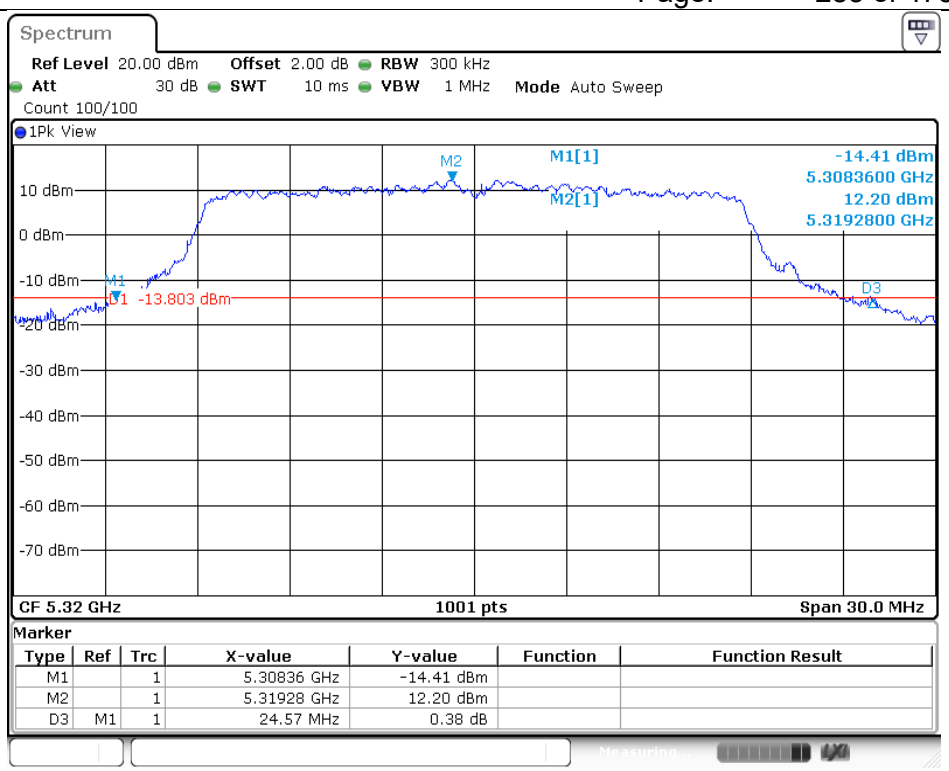

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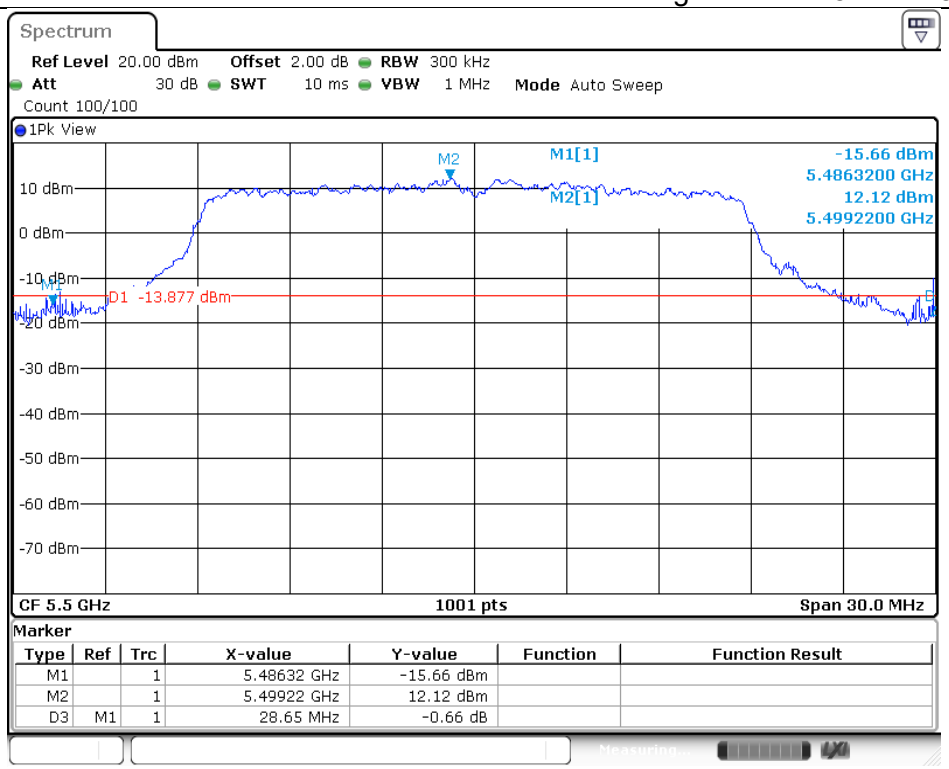

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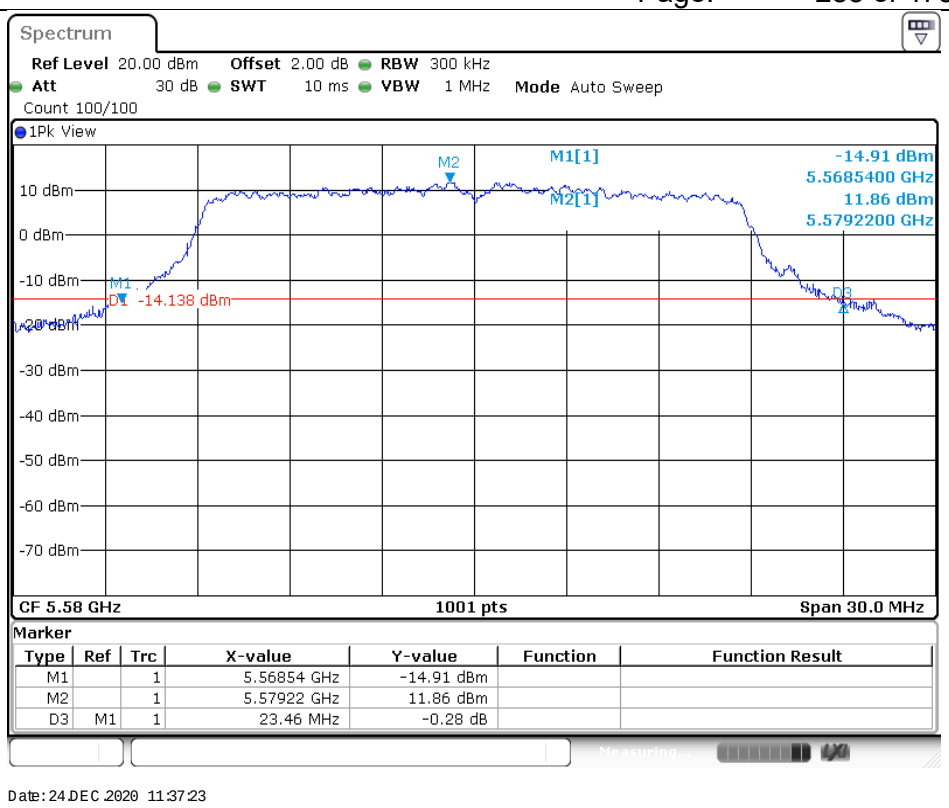

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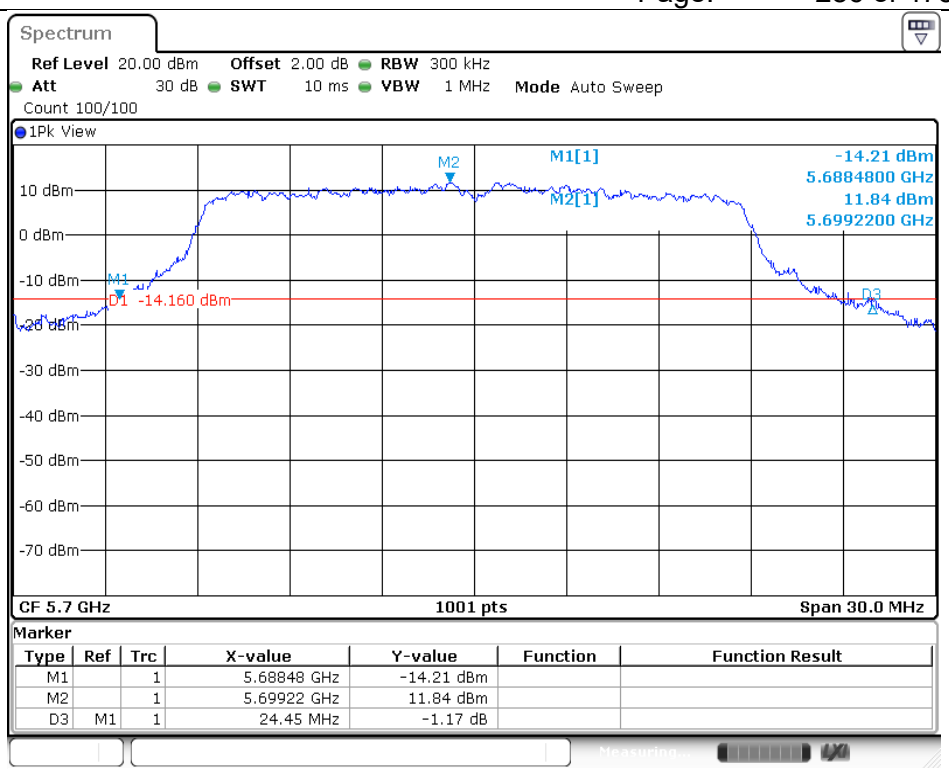

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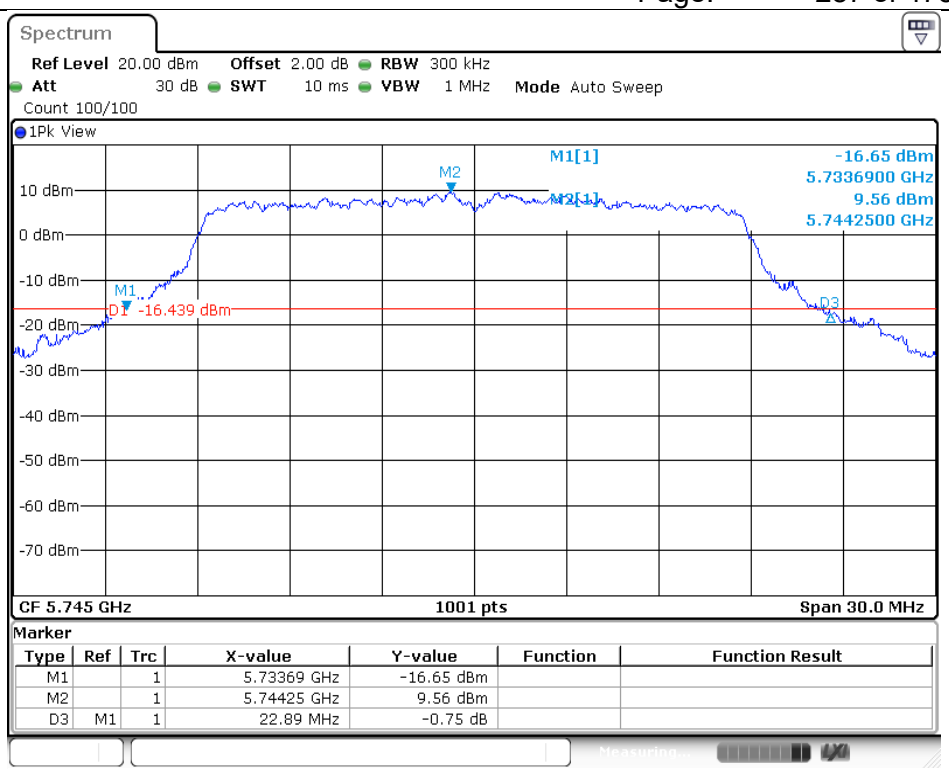

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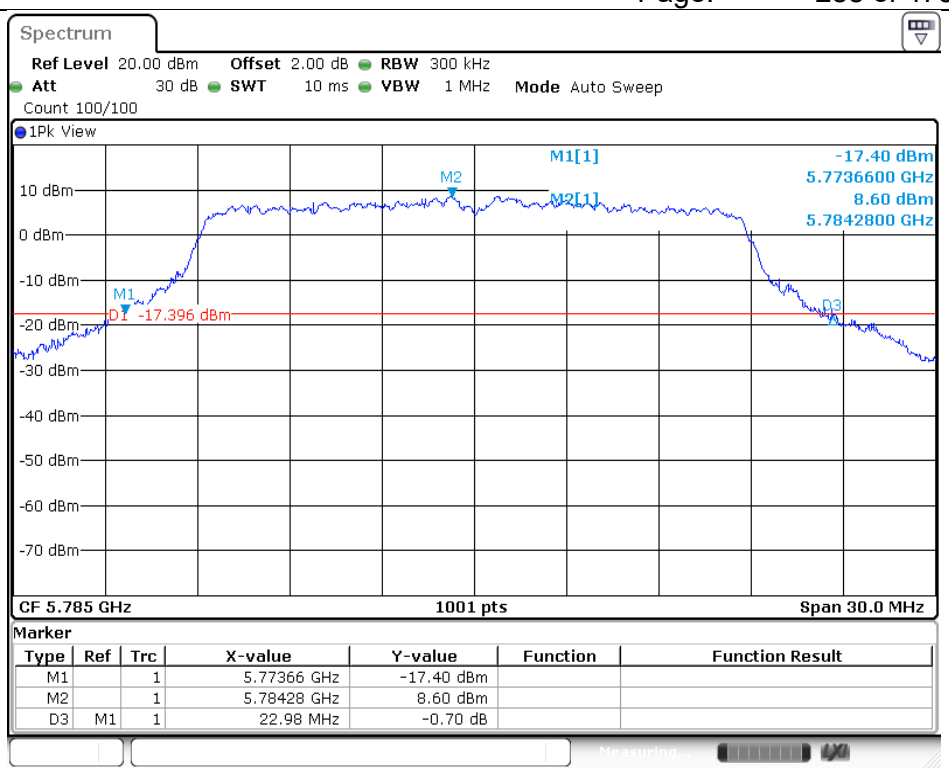

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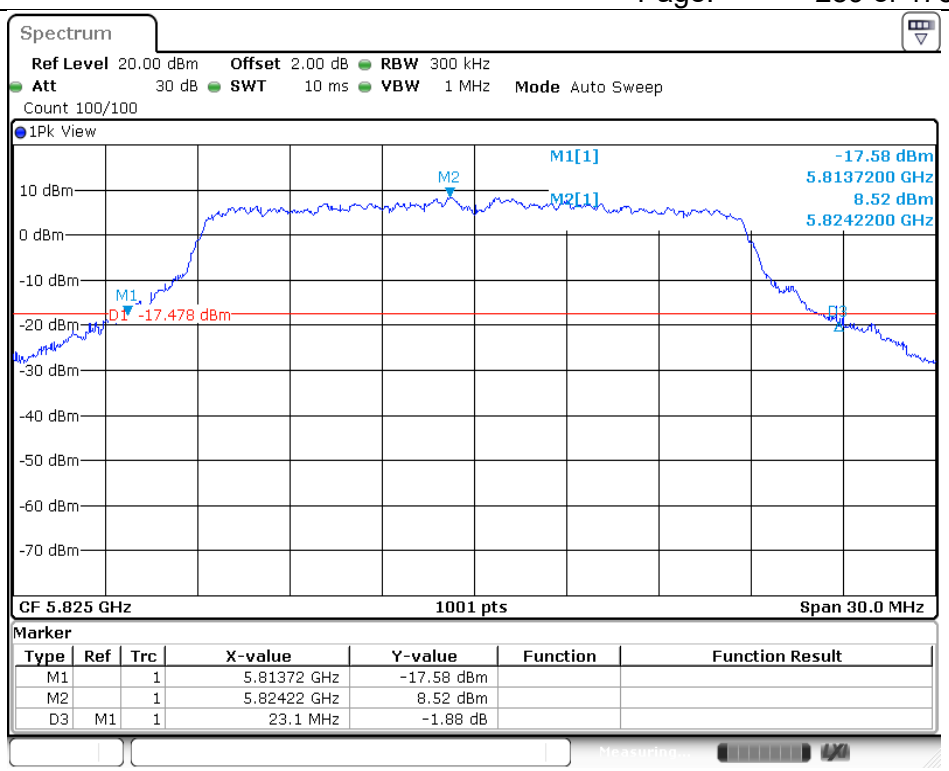

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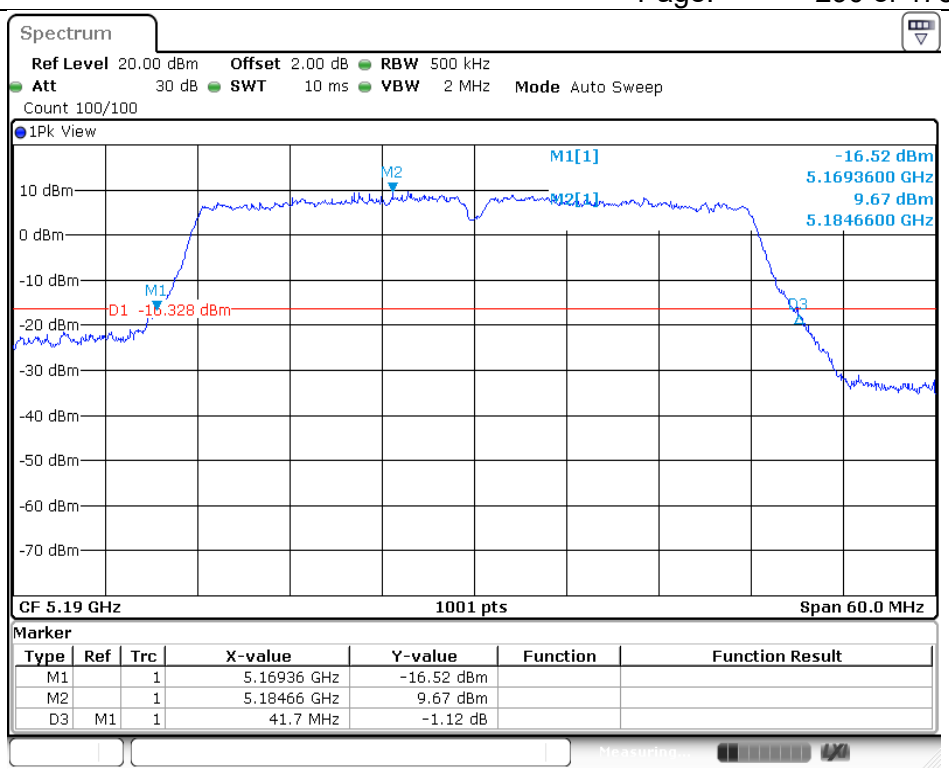

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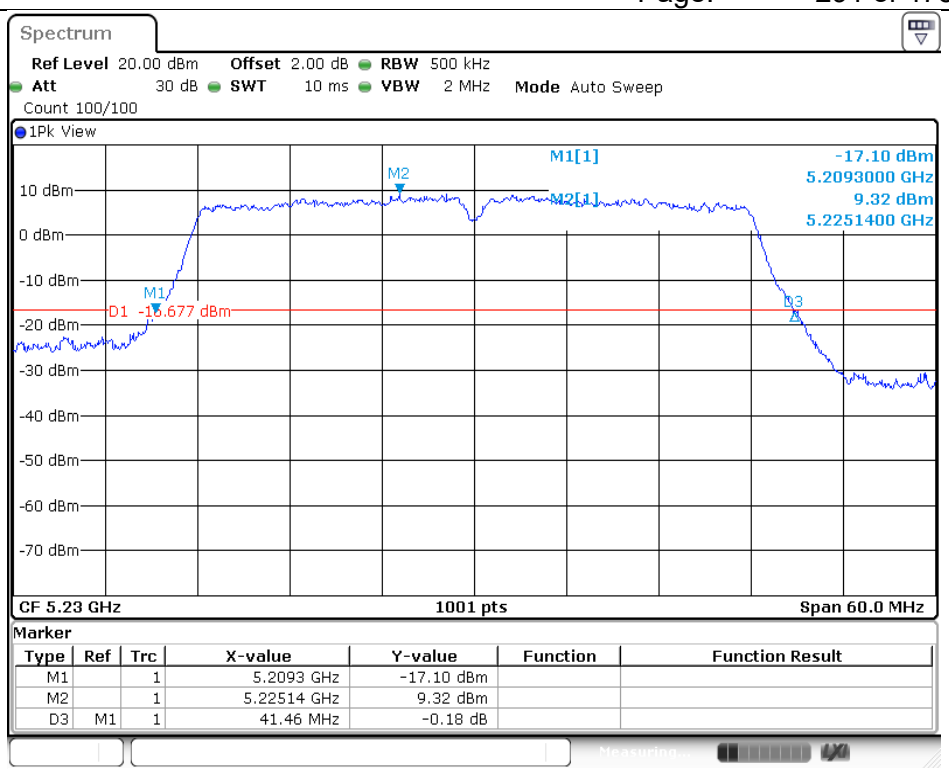

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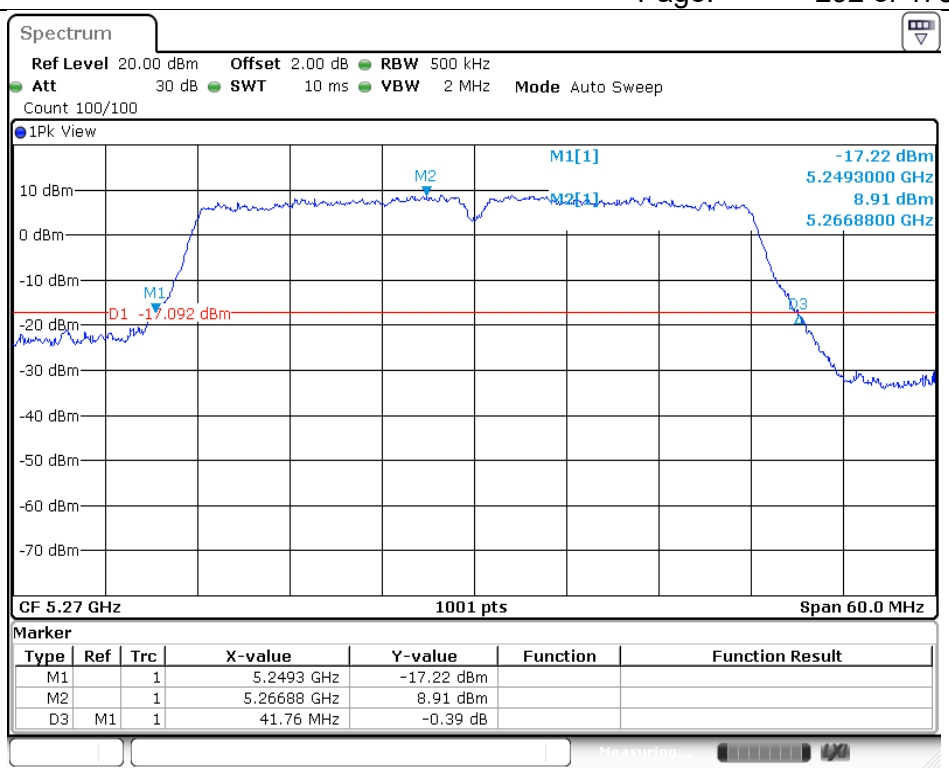

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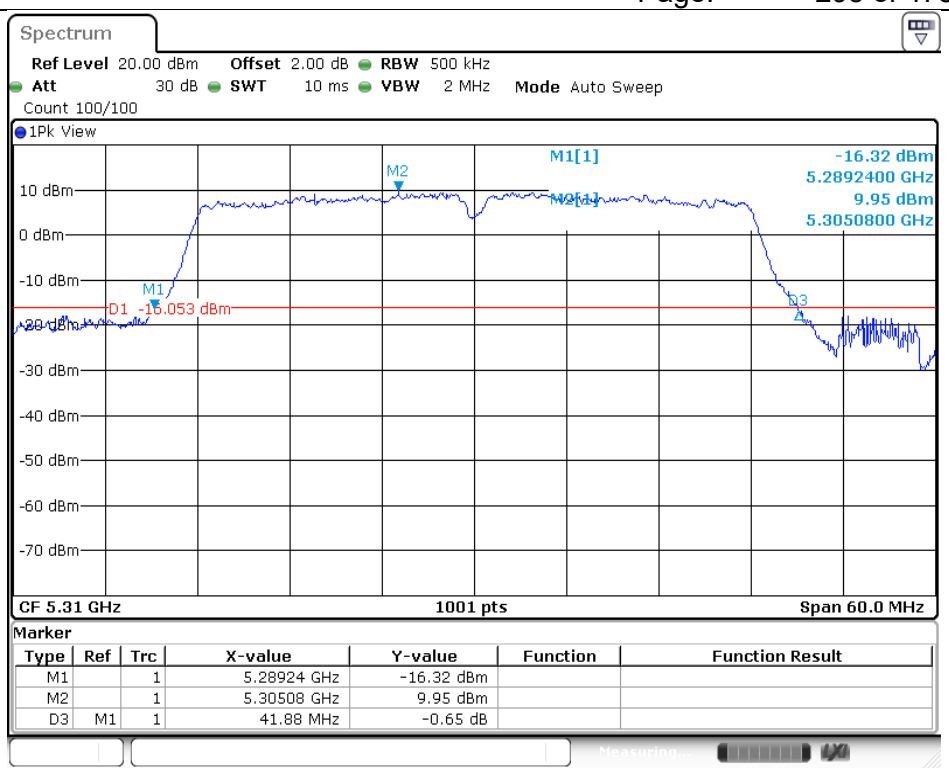

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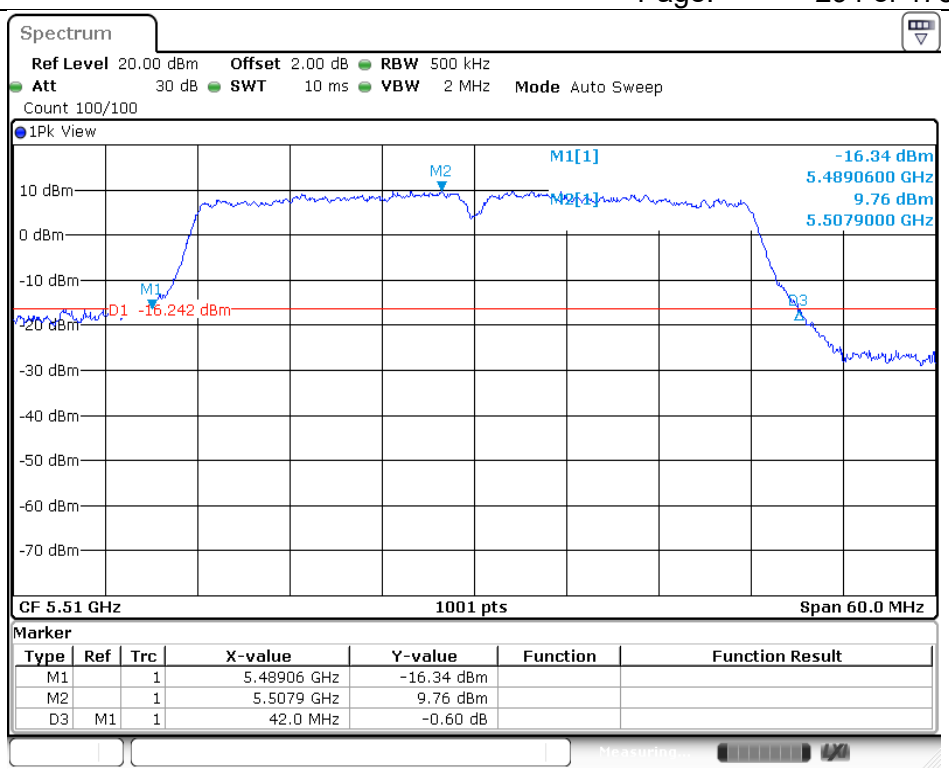

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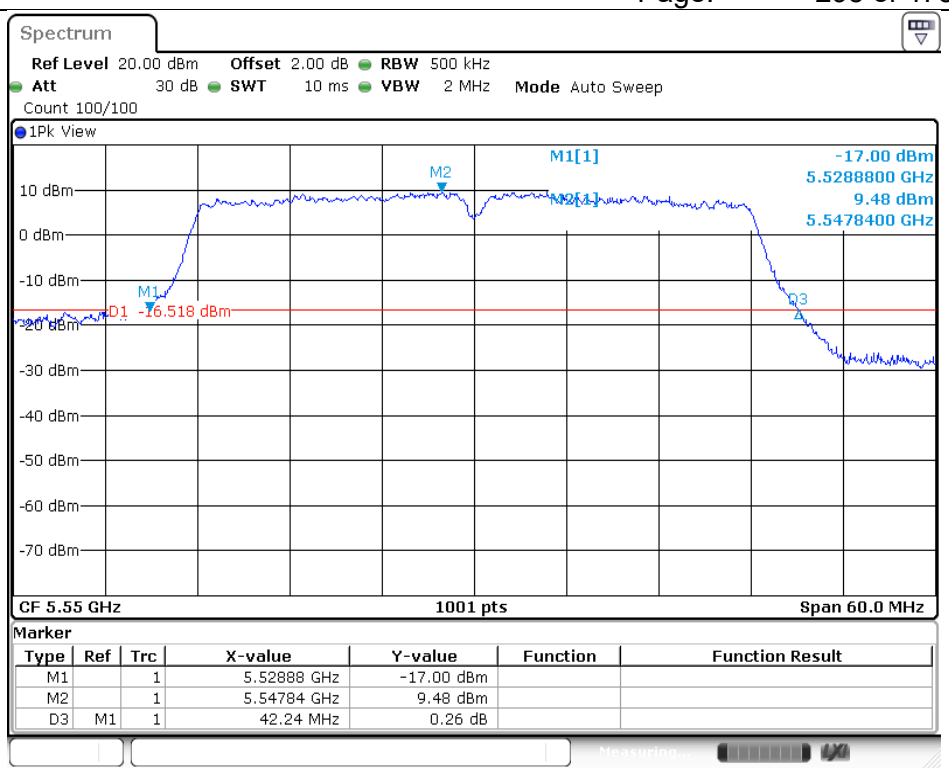

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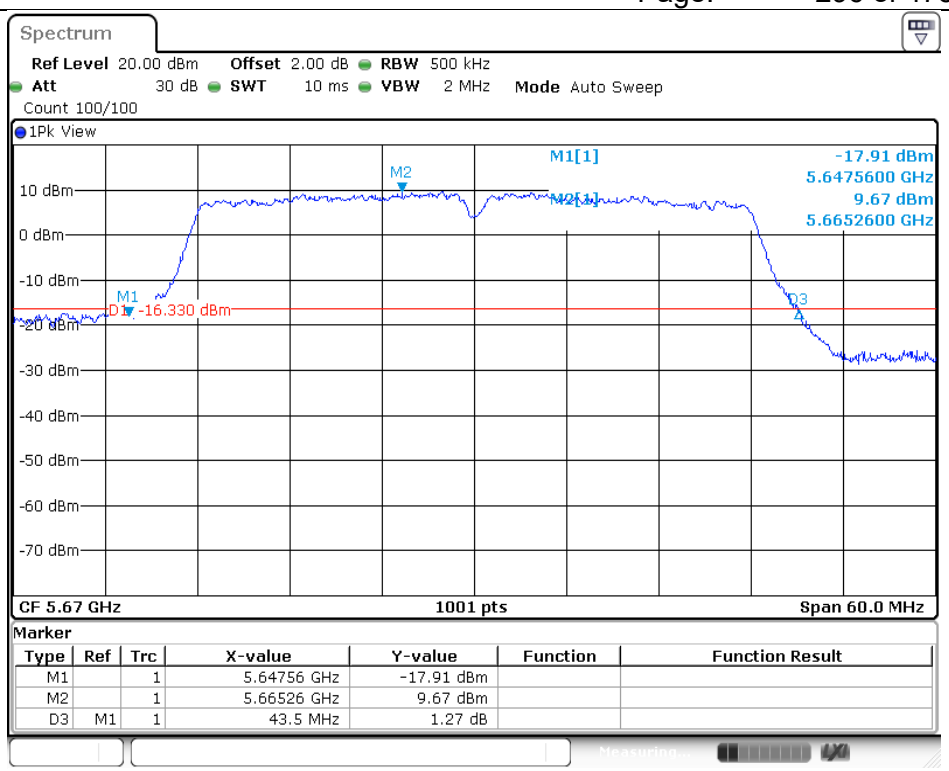

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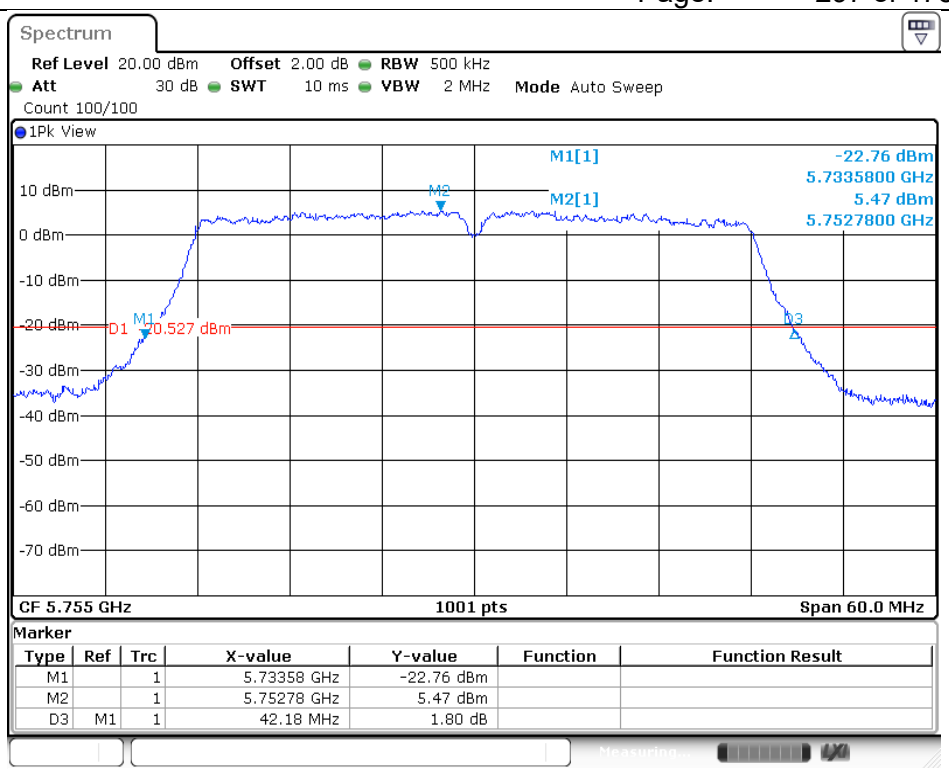

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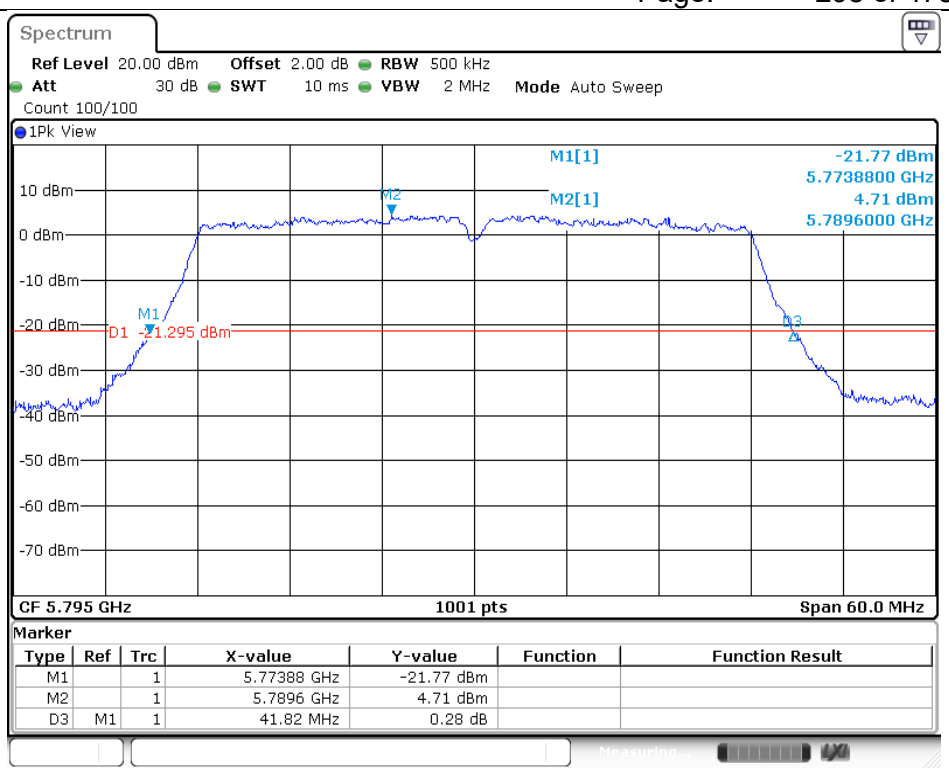

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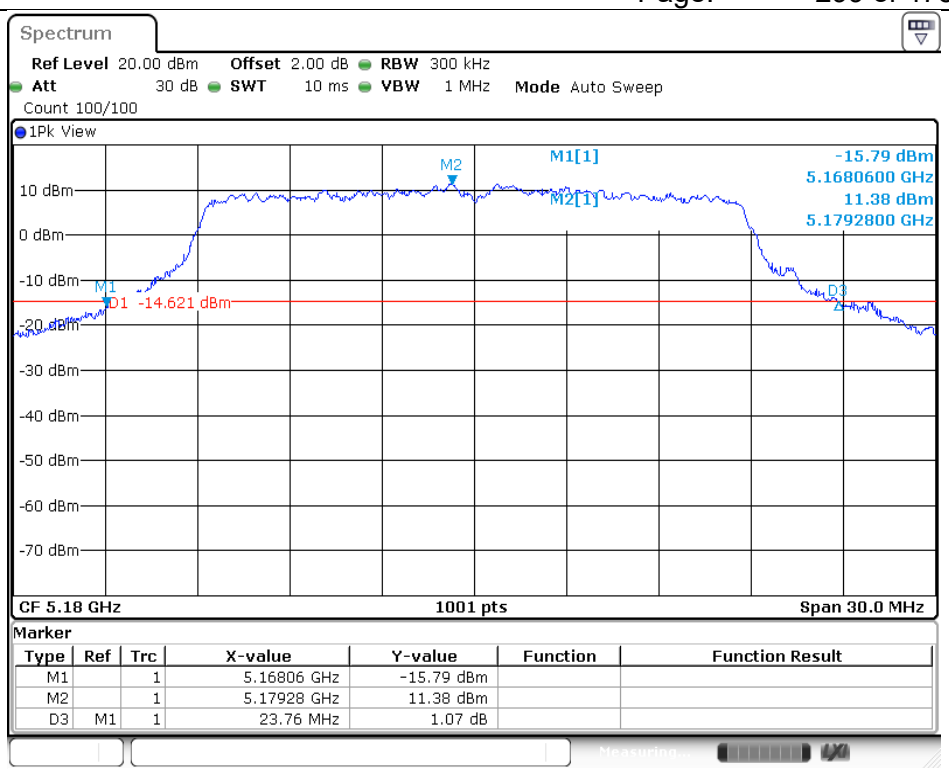

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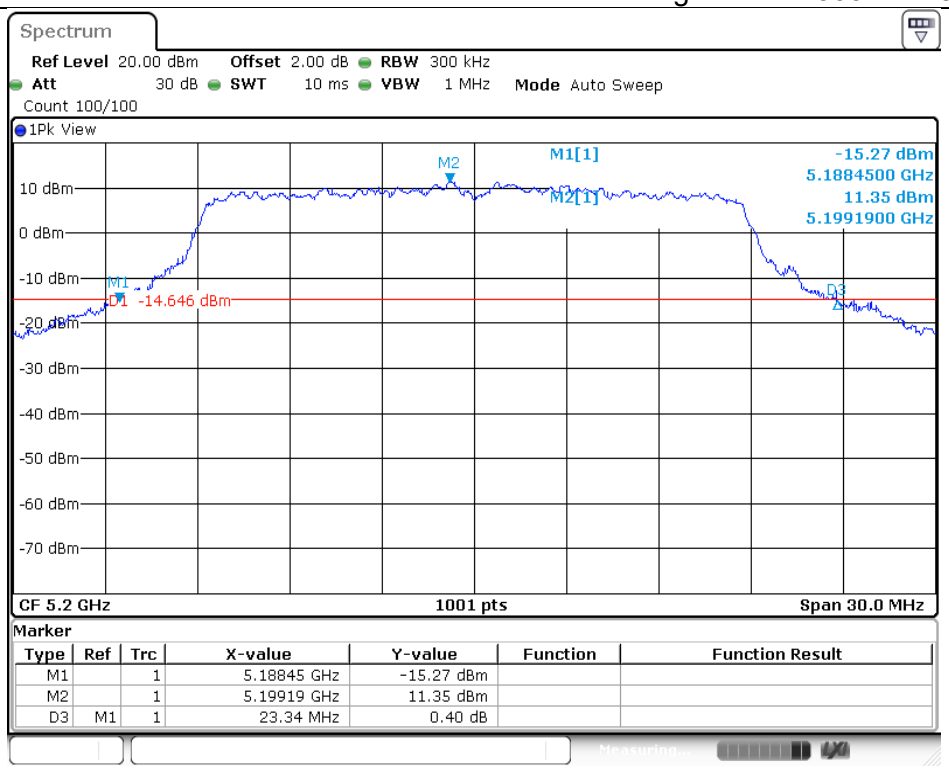

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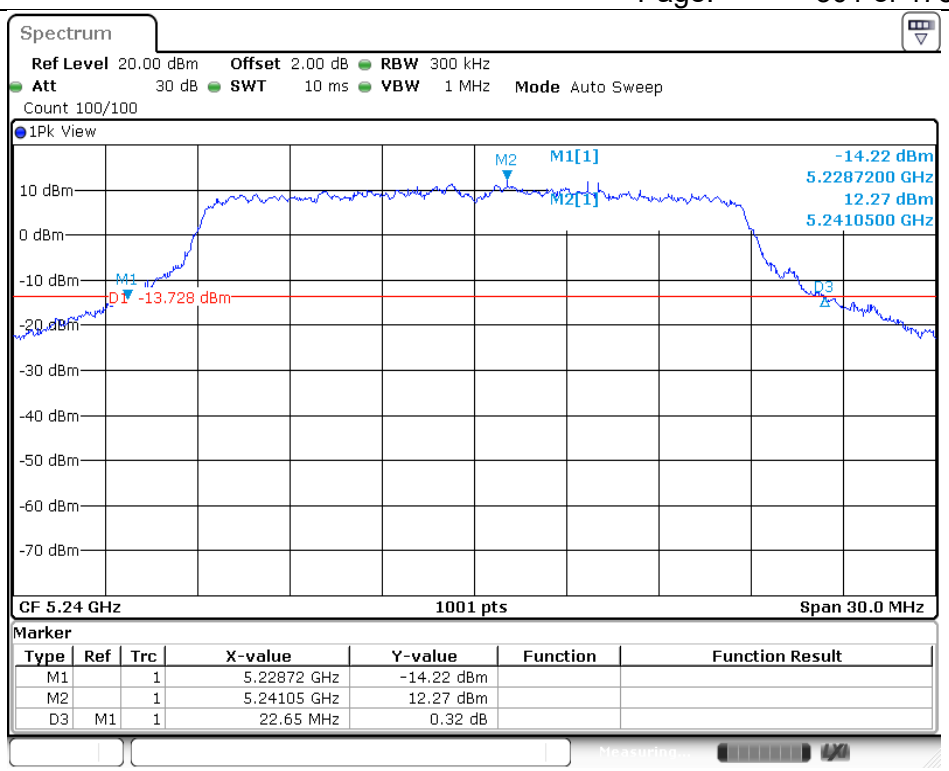

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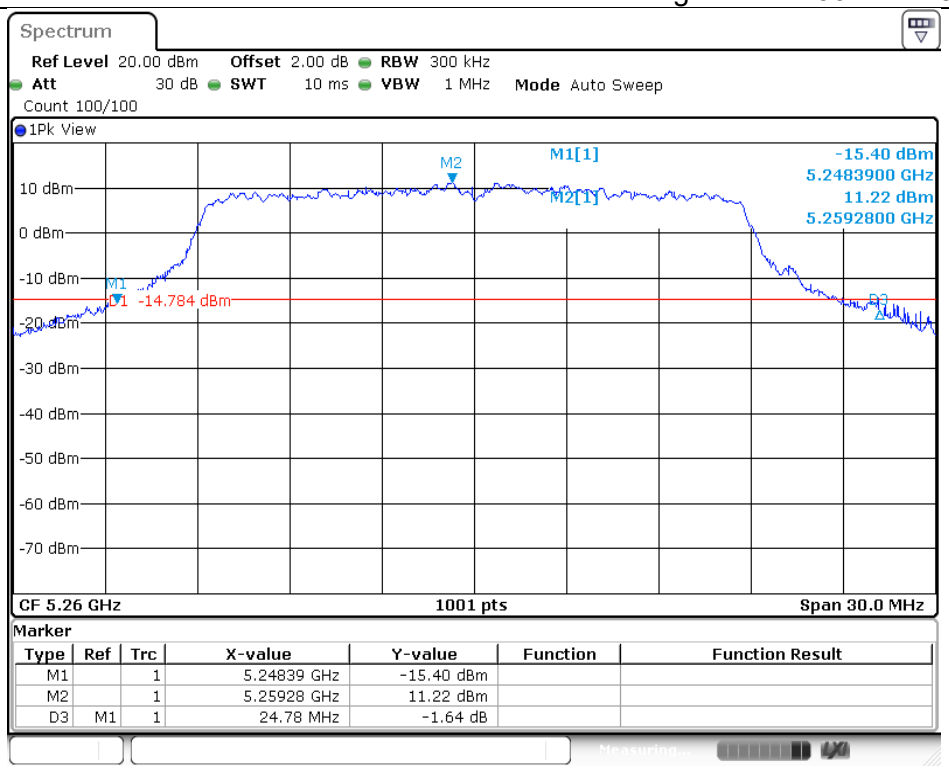

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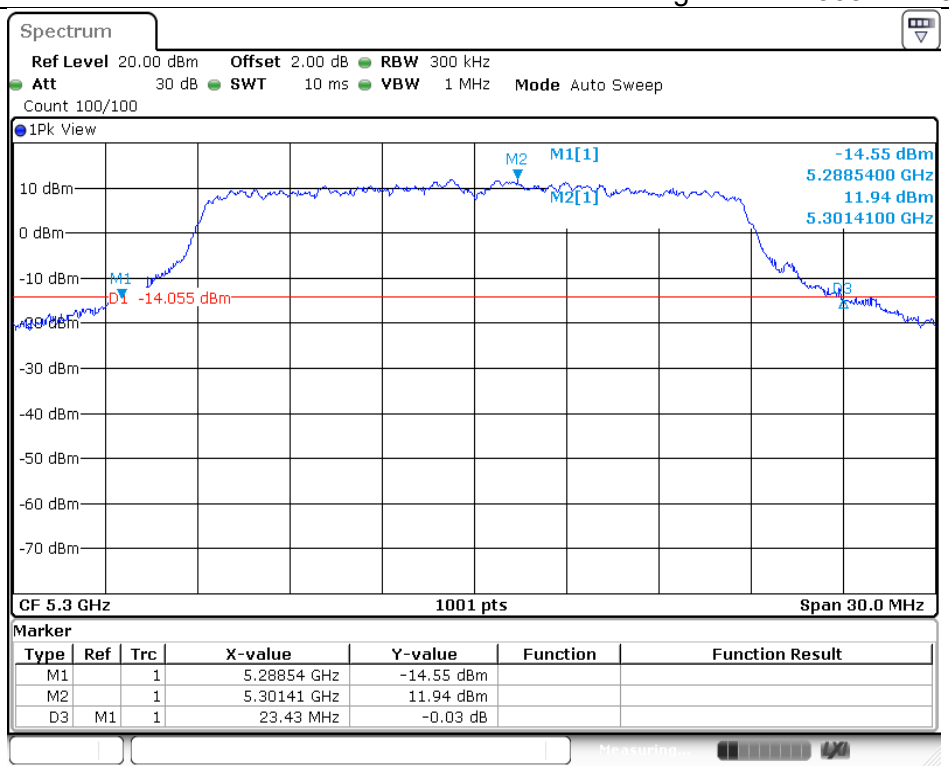

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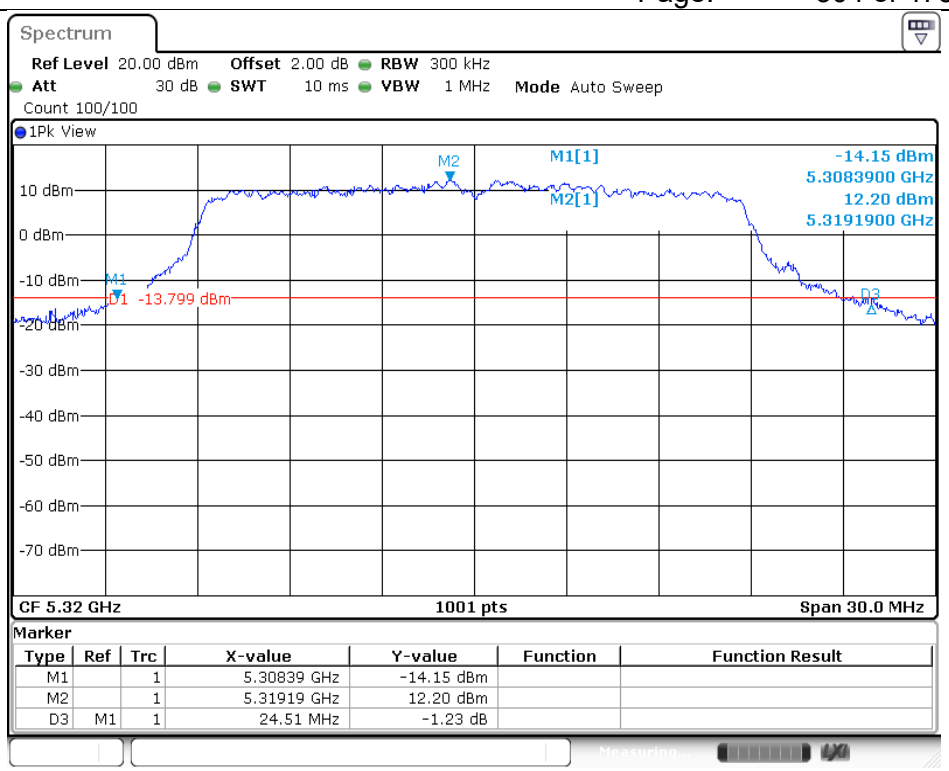

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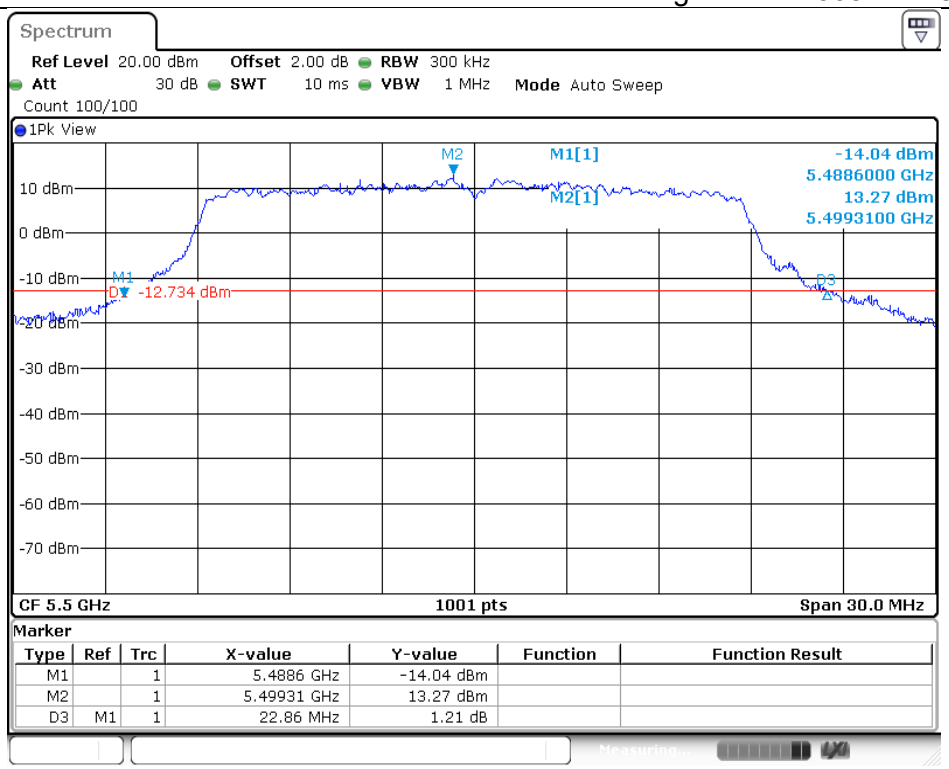

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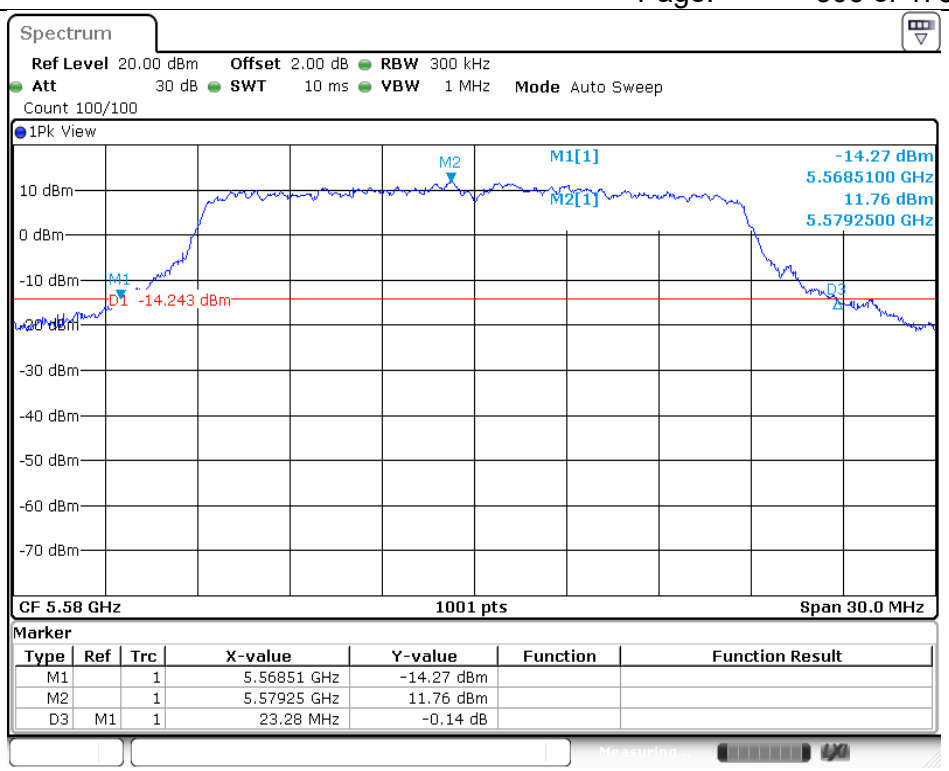

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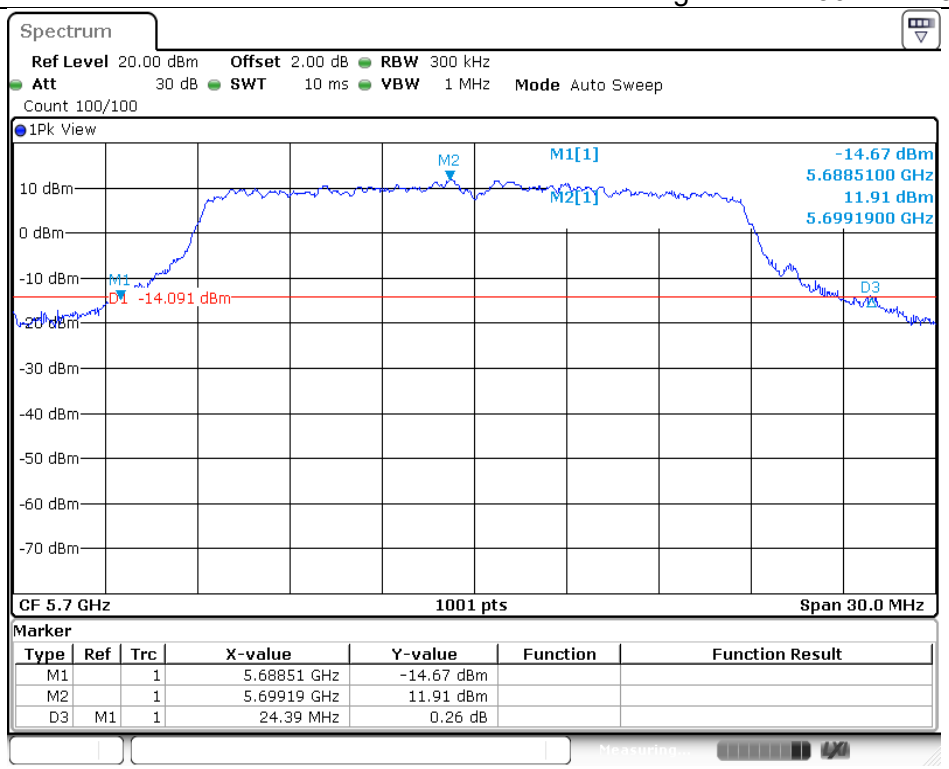

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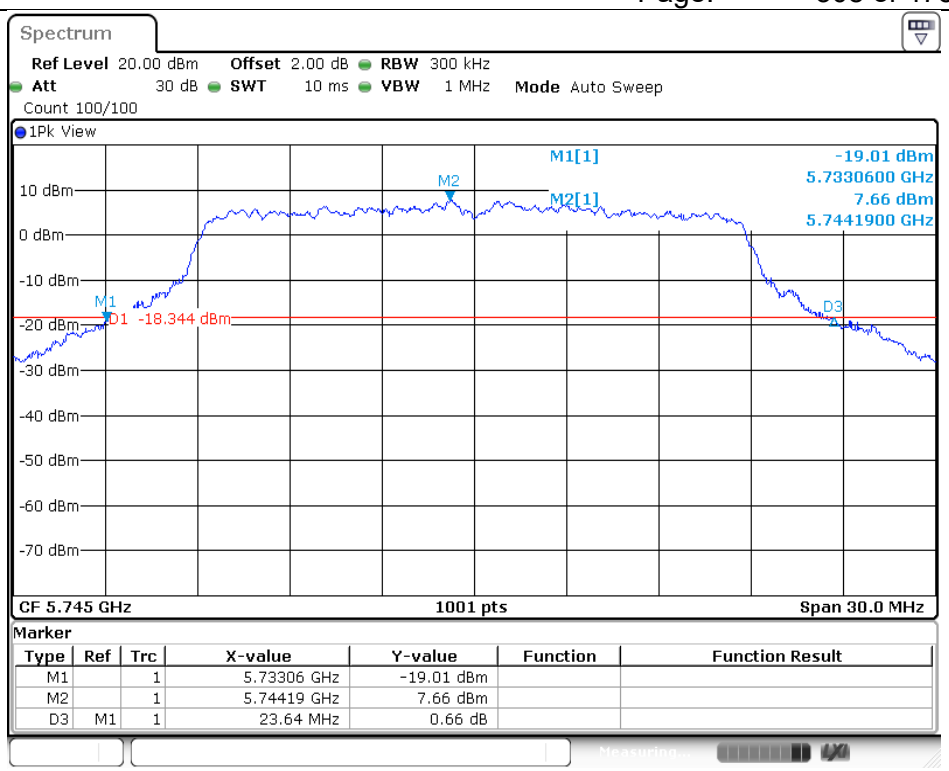

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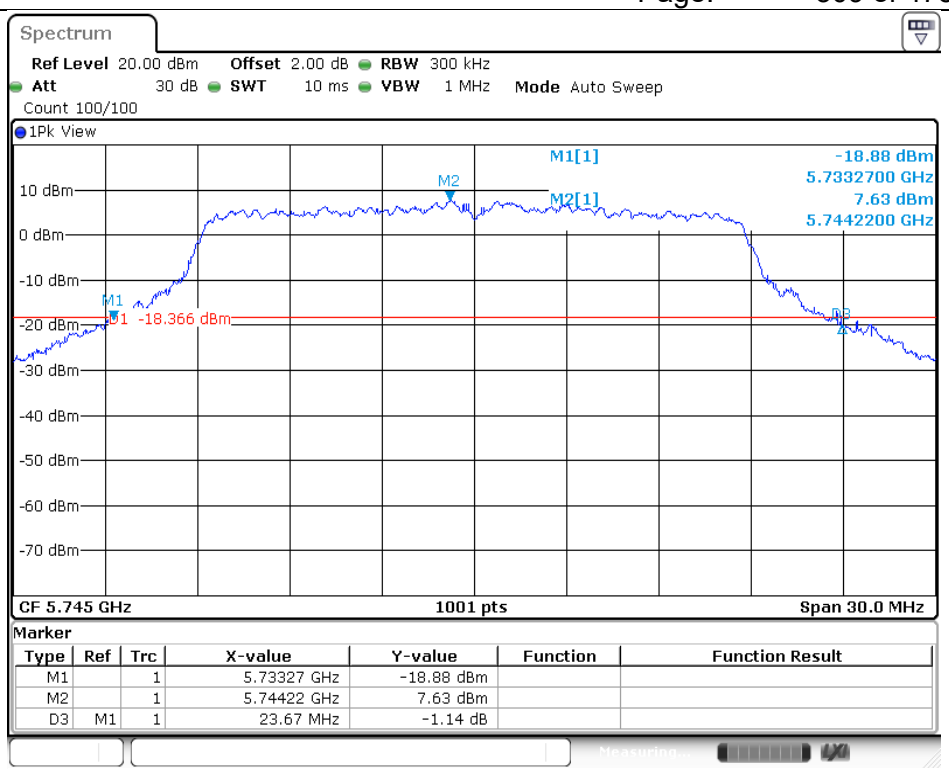

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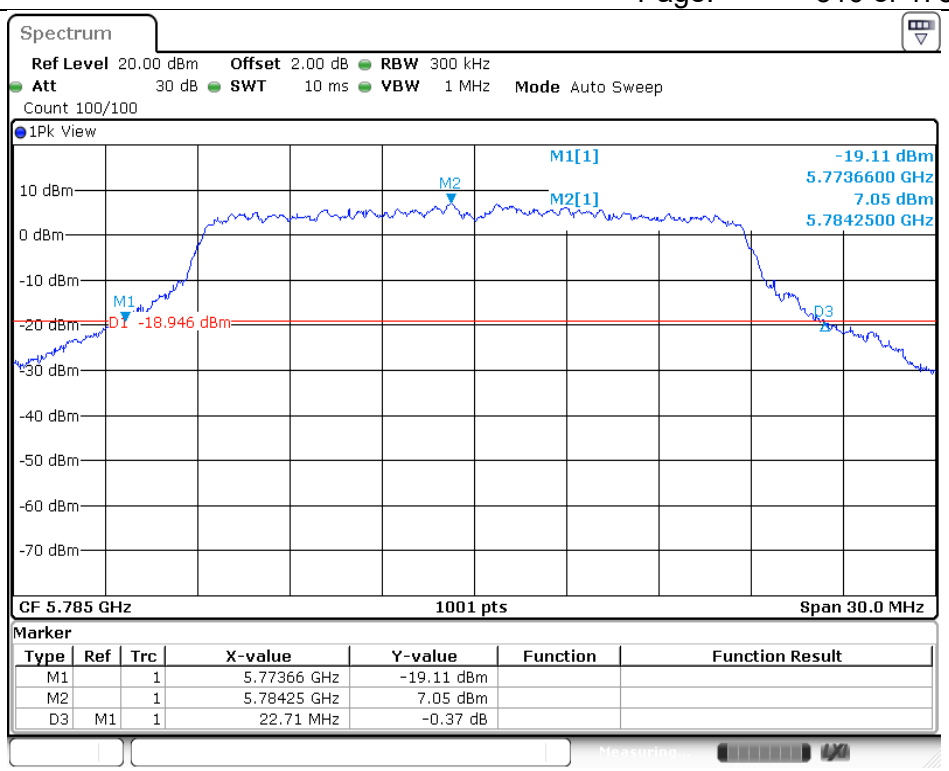

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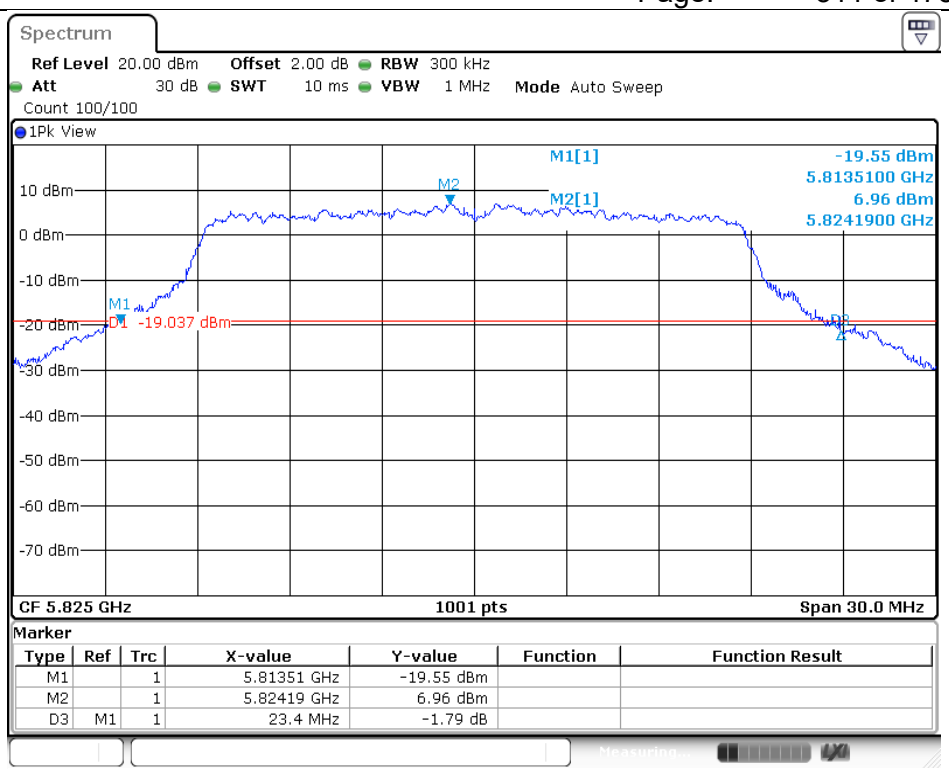

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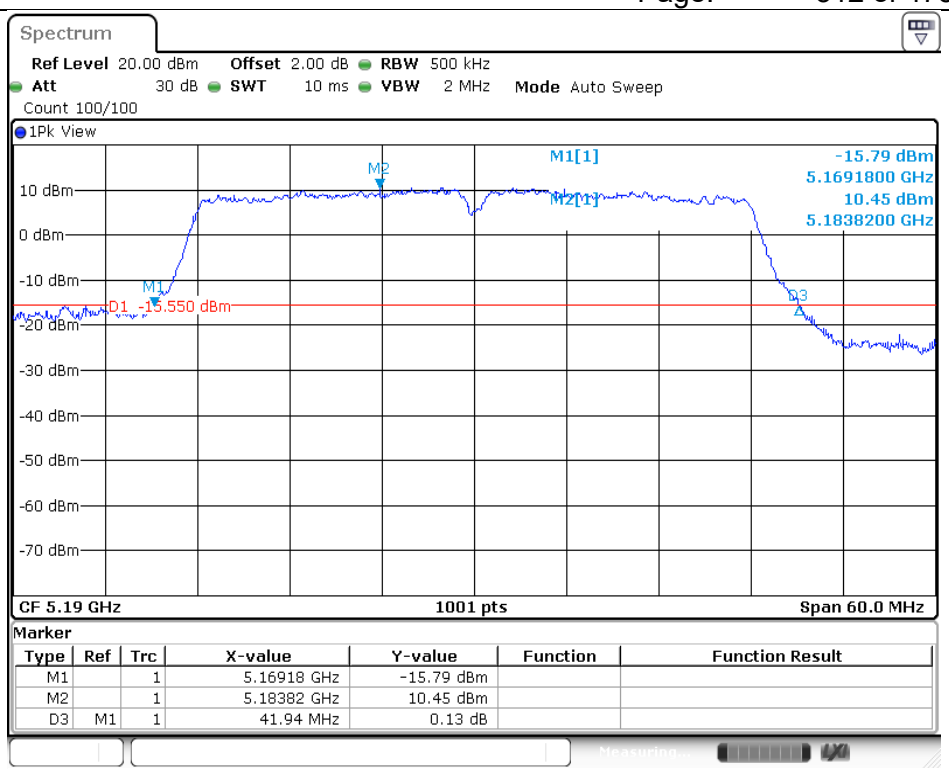

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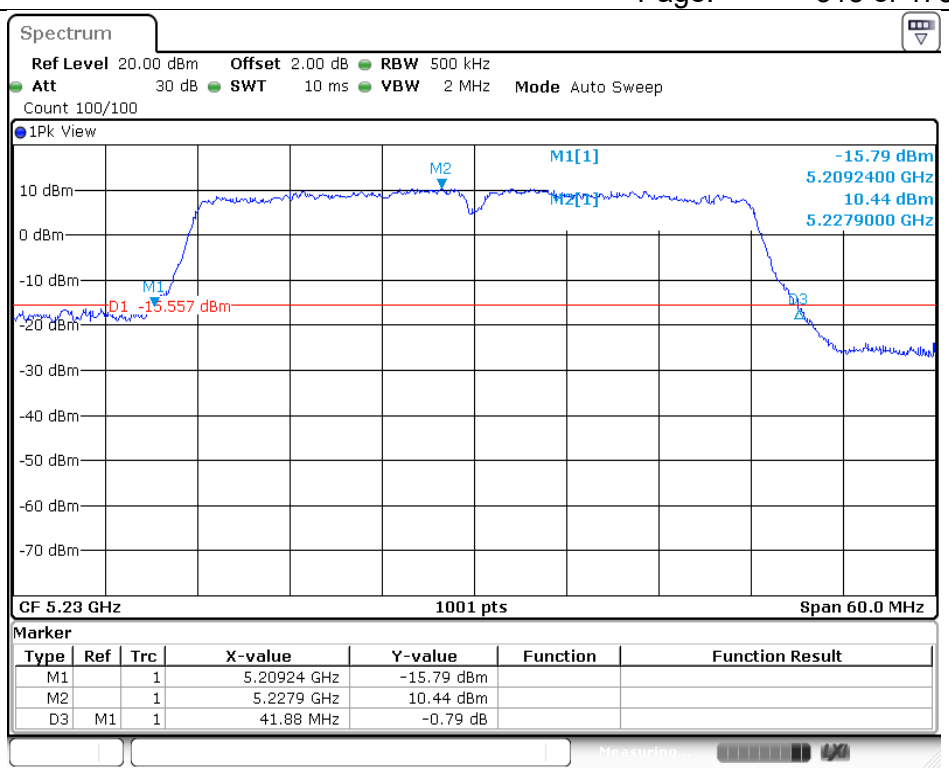

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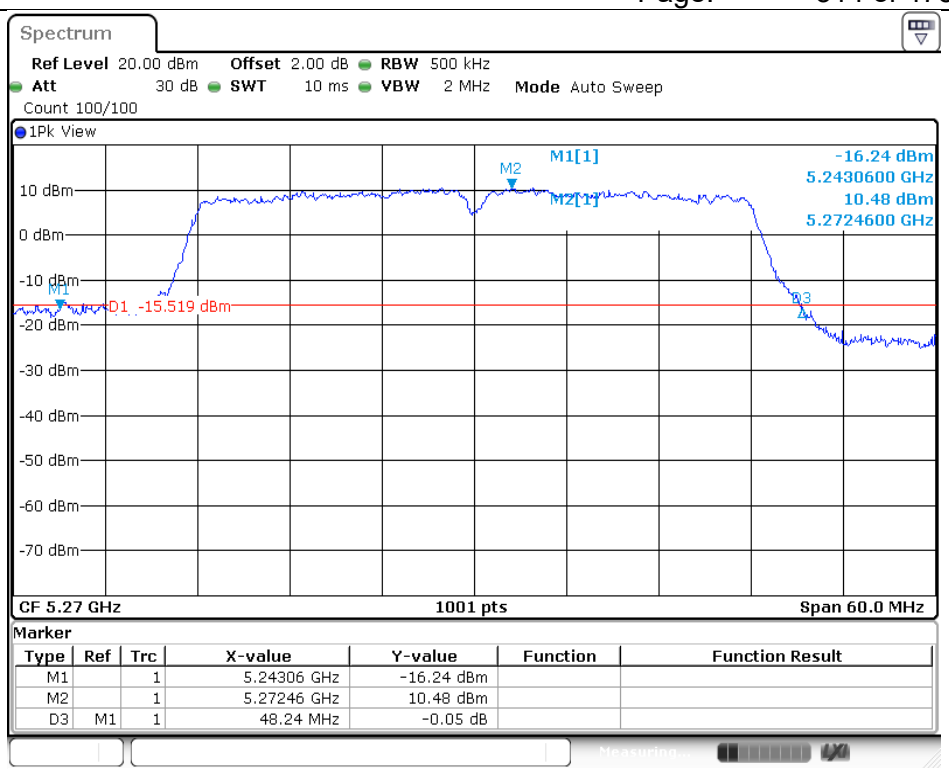

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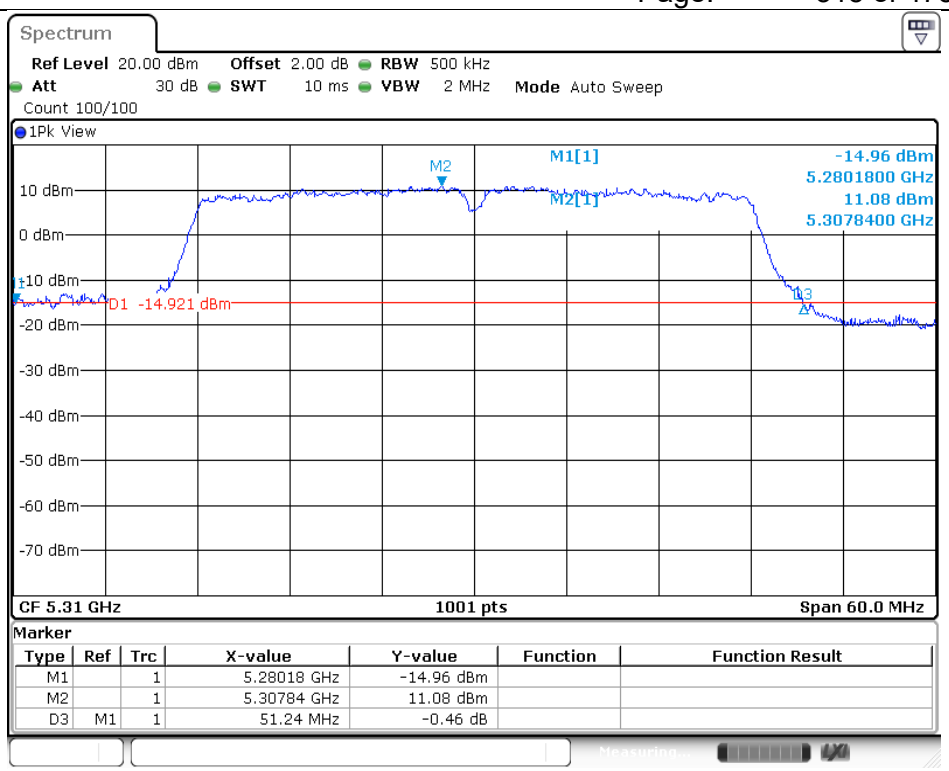

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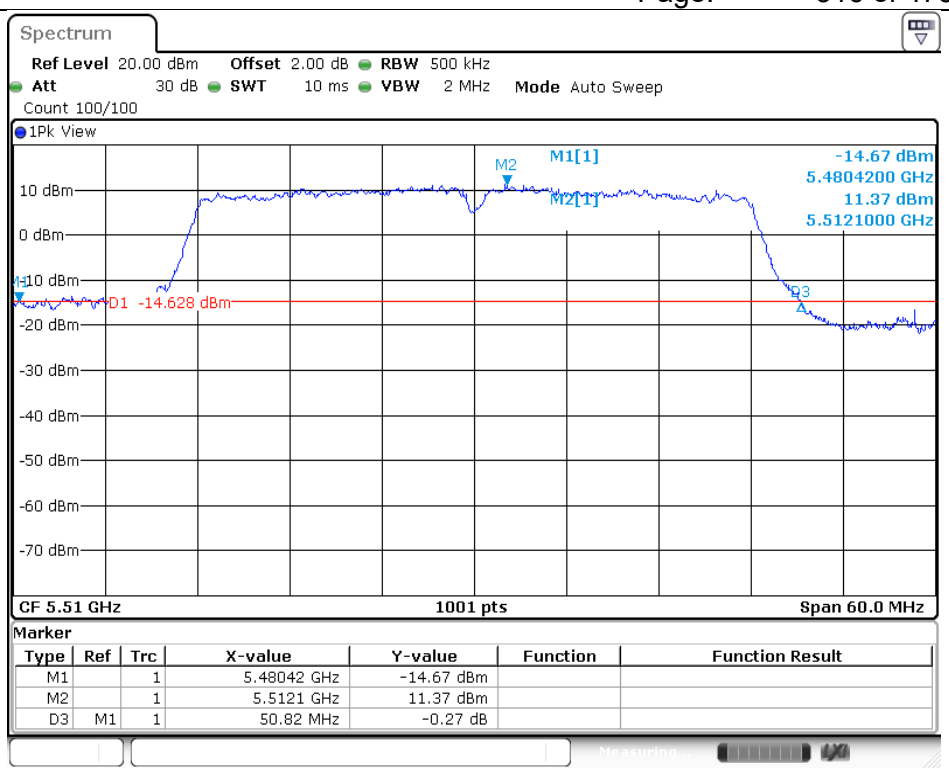

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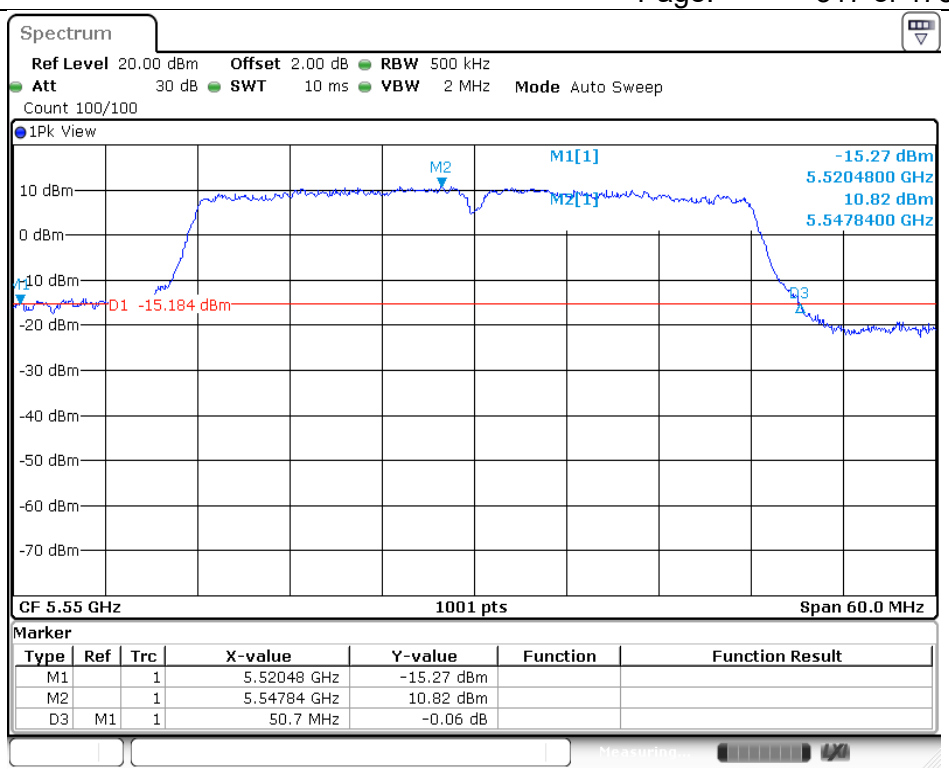

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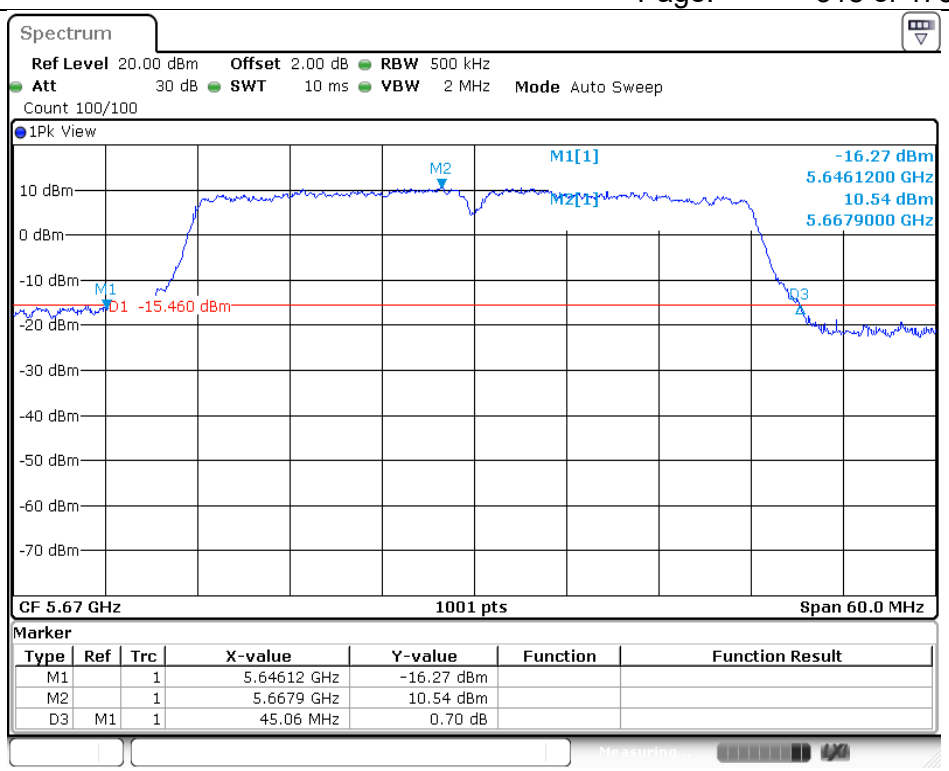

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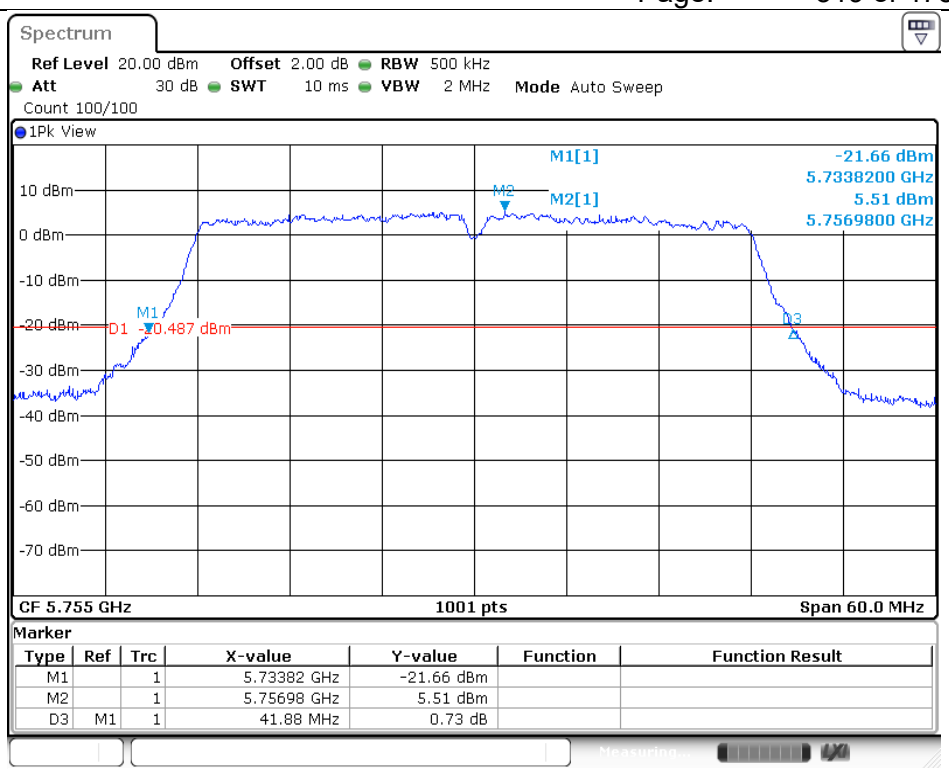

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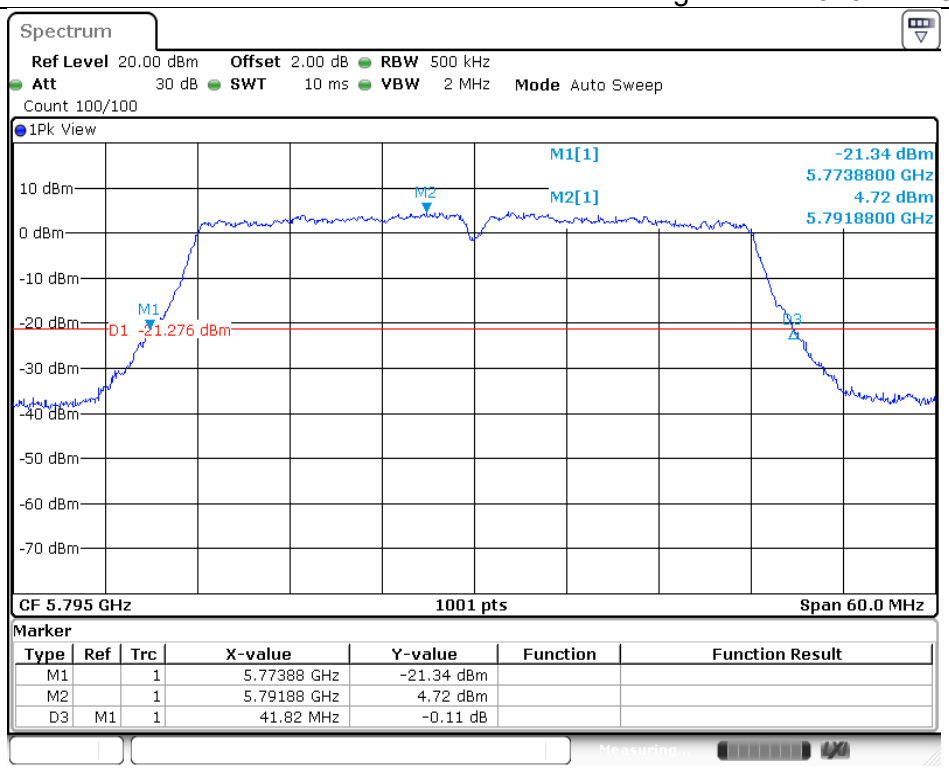

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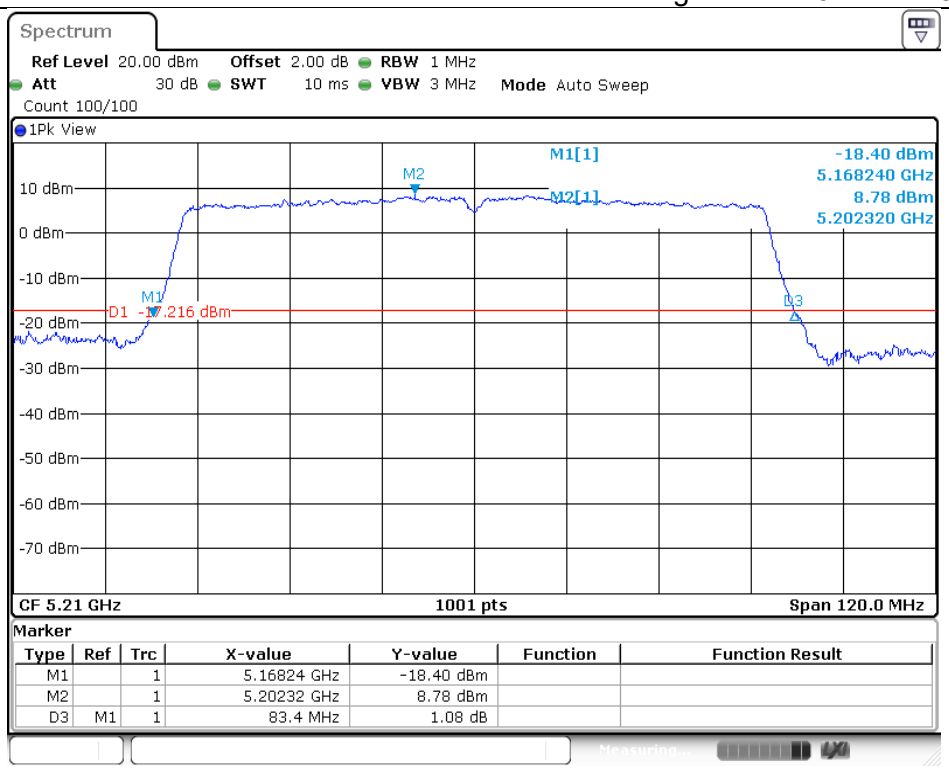

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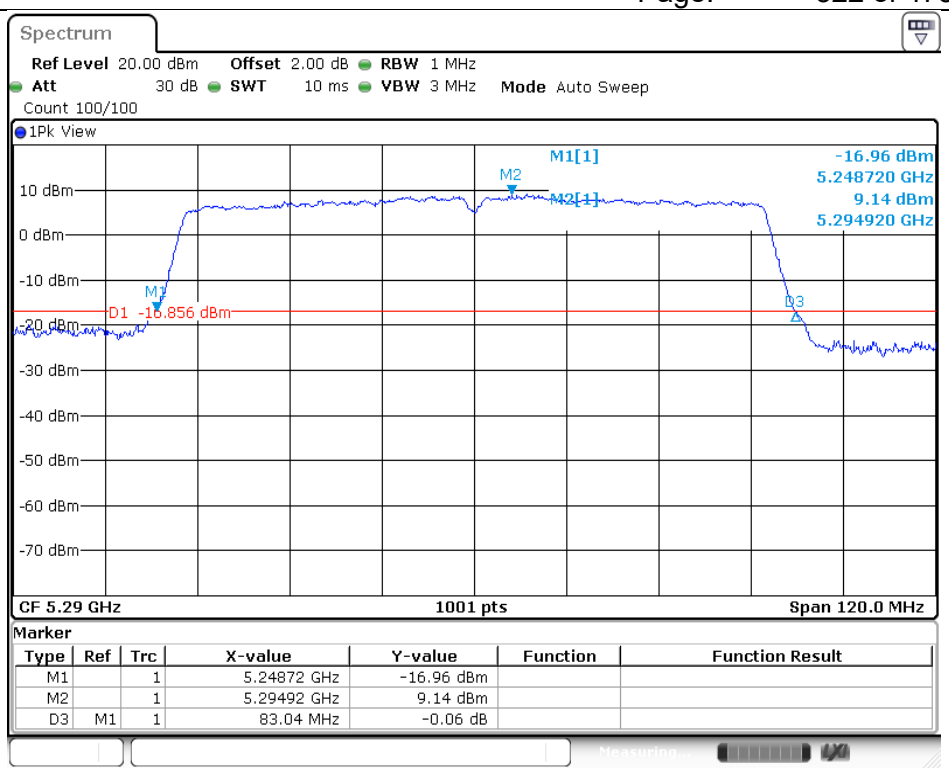

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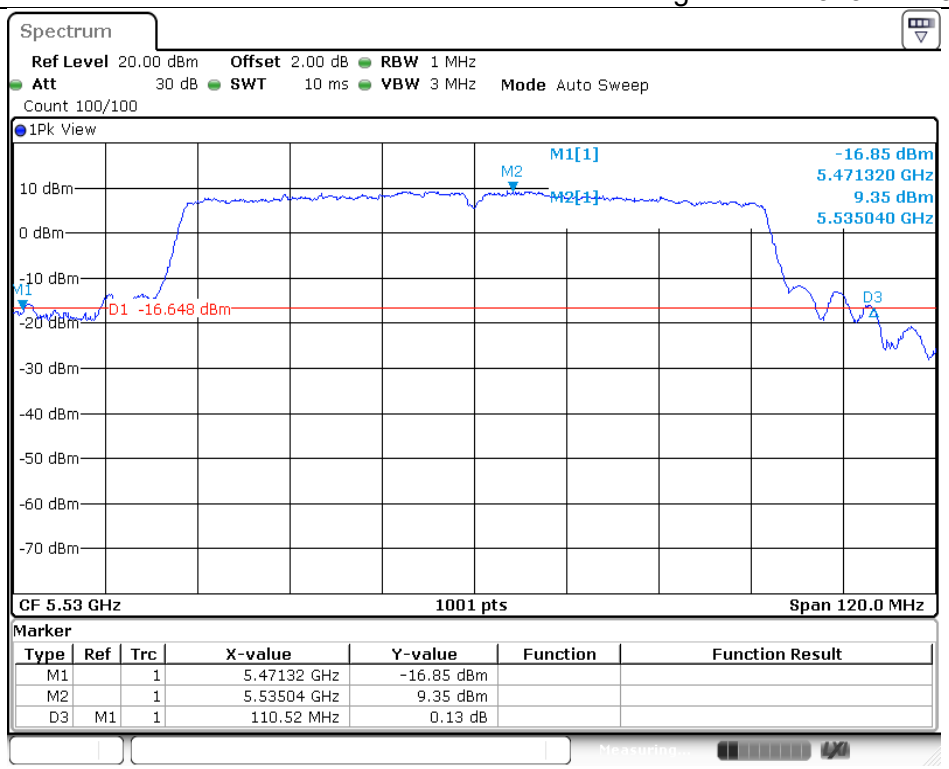

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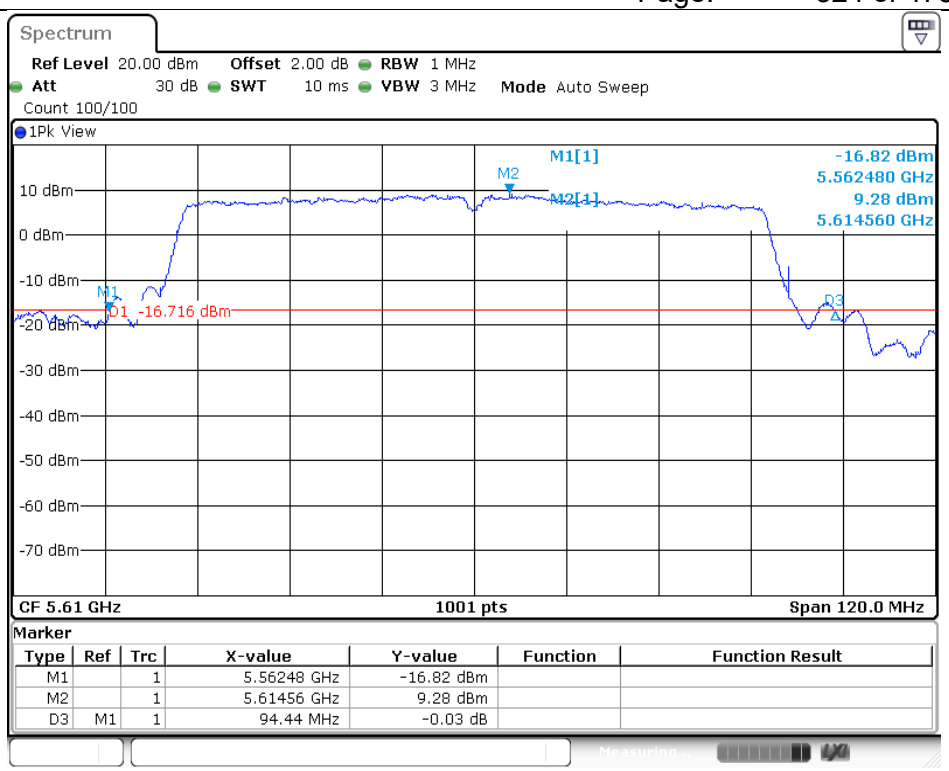

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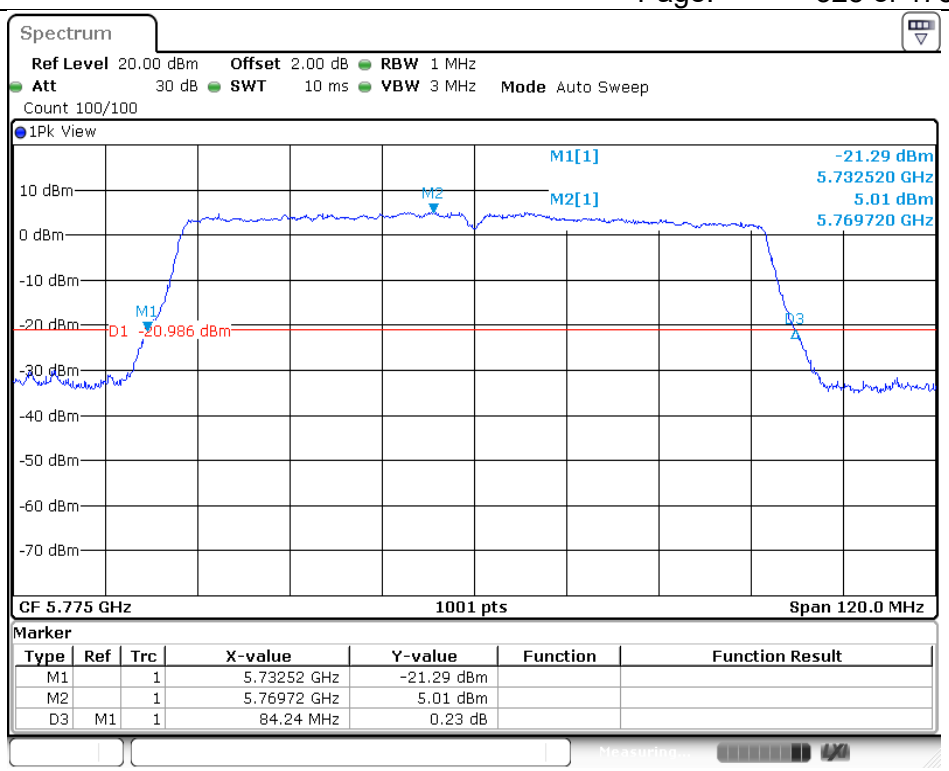

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Occupied channel bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.723	5171.638	5188.362	---	PASS
		5200	16.723	5191.638	5208.362	---	PASS
		5240	16.723	5231.638	5248.362	---	PASS
		5260	16.753	5251.608	5268.362	---	PASS
		5300	16.783	5291.608	5308.392	---	PASS
		5320	16.783	5311.608	5328.392	---	PASS
		5500	16.753	5491.608	5508.362	---	PASS
		5580	16.723	5571.608	5588.332	---	PASS
		5700	16.783	5691.578	5708.362	---	PASS
		5745	16.693	5736.608	5753.302	---	PASS
		5785	16.663	5776.638	5793.302	---	PASS
		5825	16.693	5816.608	5833.302	---	PASS
11N20SISO	Ant1	5180	17.892	5171.069	5188.961	---	PASS
		5200	17.892	5191.069	5208.961	---	PASS
		5240	17.892	5231.069	5248.961	---	PASS
		5260	17.892	5251.069	5268.961	---	PASS
		5300	17.892	5291.099	5308.991	---	PASS
		5320	17.892	5311.099	5328.991	---	PASS
		5500	17.892	5491.069	5508.961	---	PASS
		5580	17.892	5571.069	5588.961	---	PASS
		5700	17.922	5691.039	5708.961	---	PASS
		5745	17.832	5736.069	5753.901	---	PASS
		5785	17.862	5776.069	5793.931	---	PASS
		5825	17.832	5816.069	5833.901	---	PASS
11N40SISO	Ant1	5190	36.324	5171.838	5208.162	---	PASS
		5230	36.384	5211.838	5248.222	---	PASS
		5270	36.324	5251.898	5288.222	---	PASS
		5310	36.384	5291.838	5328.222	---	PASS
		5510	36.324	5491.838	5528.162	---	PASS

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		5550	36.384	5531.778	5568.162	---	PASS
		5670	36.384	5651.778	5688.162	---	PASS
		5755	36.384	5736.778	5773.162	---	PASS
		5795	36.324	5776.838	5813.162	---	PASS
11AC20SISO	Ant1	5180	17.892	5171.069	5188.961	---	PASS
		5200	17.892	5191.069	5208.961	---	PASS
		5240	17.892	5231.069	5248.961	---	PASS
		5260	17.892	5251.069	5268.961	---	PASS
		5300	17.922	5291.069	5308.991	---	PASS
		5320	17.922	5311.069	5328.991	---	PASS
		5500	17.892	5491.069	5508.961	---	PASS
		5580	17.892	5571.069	5588.961	---	PASS
		5700	17.922	5691.039	5708.961	---	PASS
		5745	17.892	5736.039	5753.931	---	PASS
		5745	17.892	5736.039	5753.931	---	PASS
		5785	17.832	5776.069	5793.901	---	PASS
		5825	17.862	5816.069	5833.931	---	PASS
11AC40SISO	Ant1	5190	36.324	5171.838	5208.162	---	PASS
		5230	36.324	5211.838	5248.162	---	PASS
		5270	36.384	5251.838	5288.222	---	PASS
		5310	36.384	5291.838	5328.222	---	PASS
		5510	36.384	5491.778	5528.162	---	PASS
		5550	36.384	5531.778	5568.162	---	PASS
		5670	36.384	5651.778	5688.162	---	PASS
		5755	36.384	5736.778	5773.162	---	PASS
		5795	36.384	5776.778	5813.162	---	PASS
11AC80SISO	Ant1	5210	75.644	5172.238	5247.882	---	PASS
		5290	75.644	5252.238	5327.882	---	PASS
		5530	75.884	5491.998	5567.882	---	PASS
		5610	75.884	5571.998	5647.882	---	PASS
		5775	75.764	5736.998	5812.762	---	PASS

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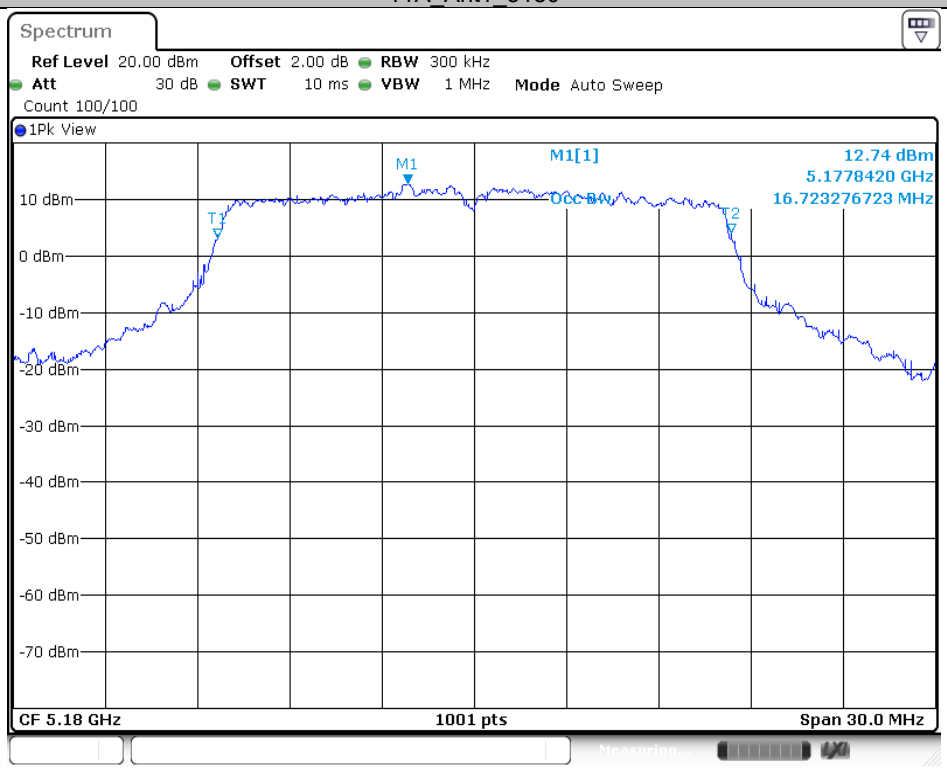
Test Graphs

11A_Ant1_5180



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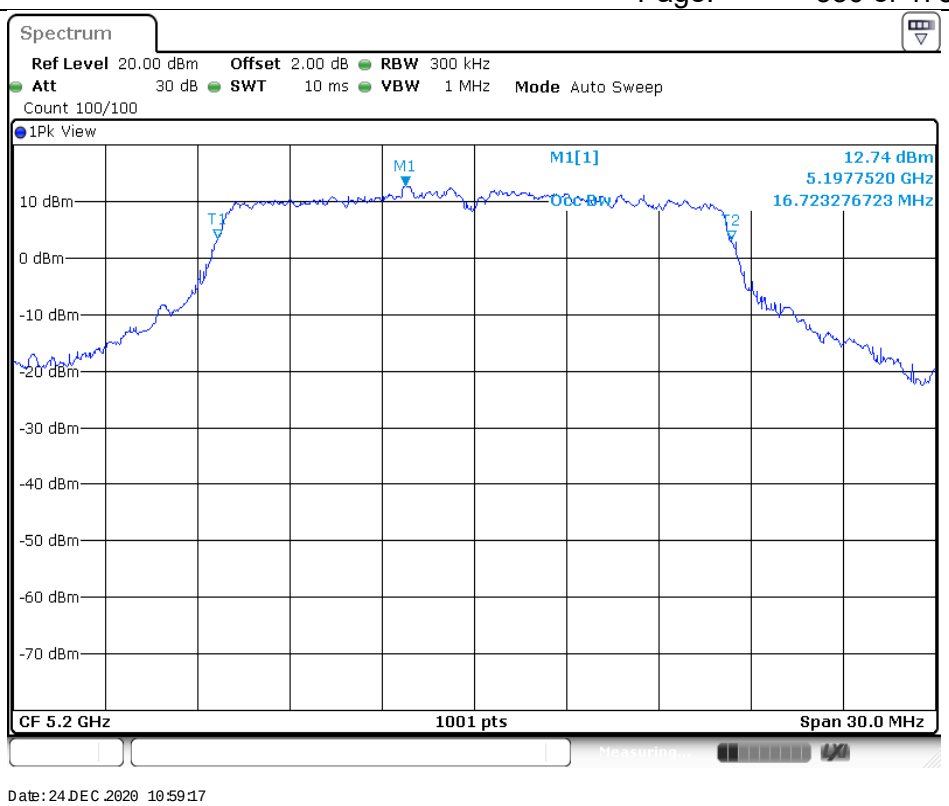

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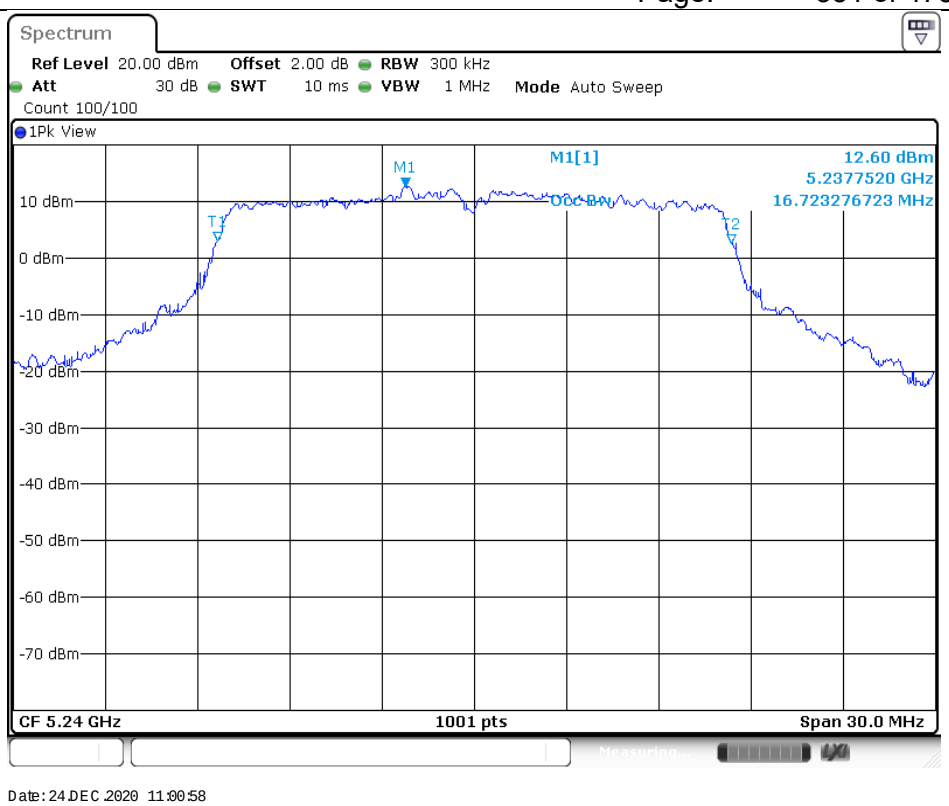

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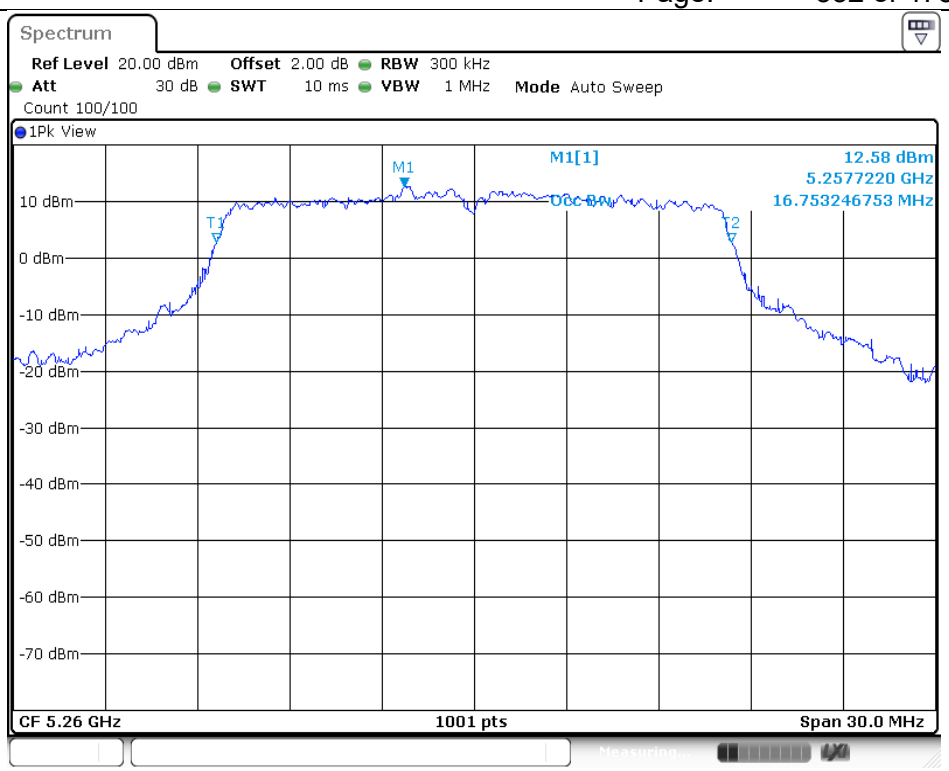

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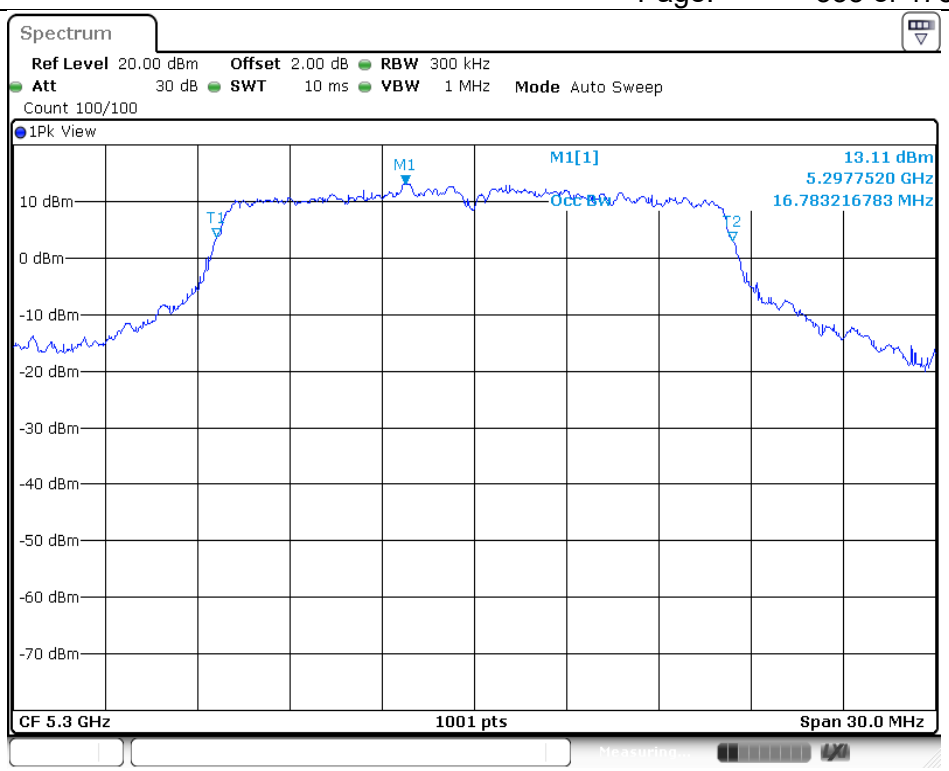

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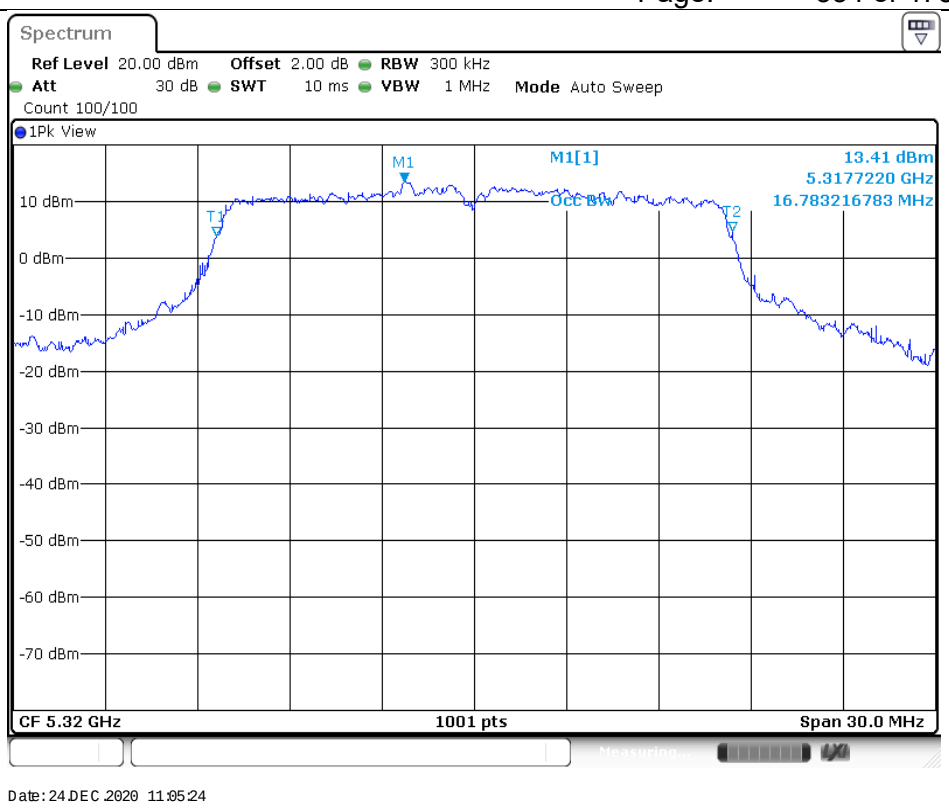

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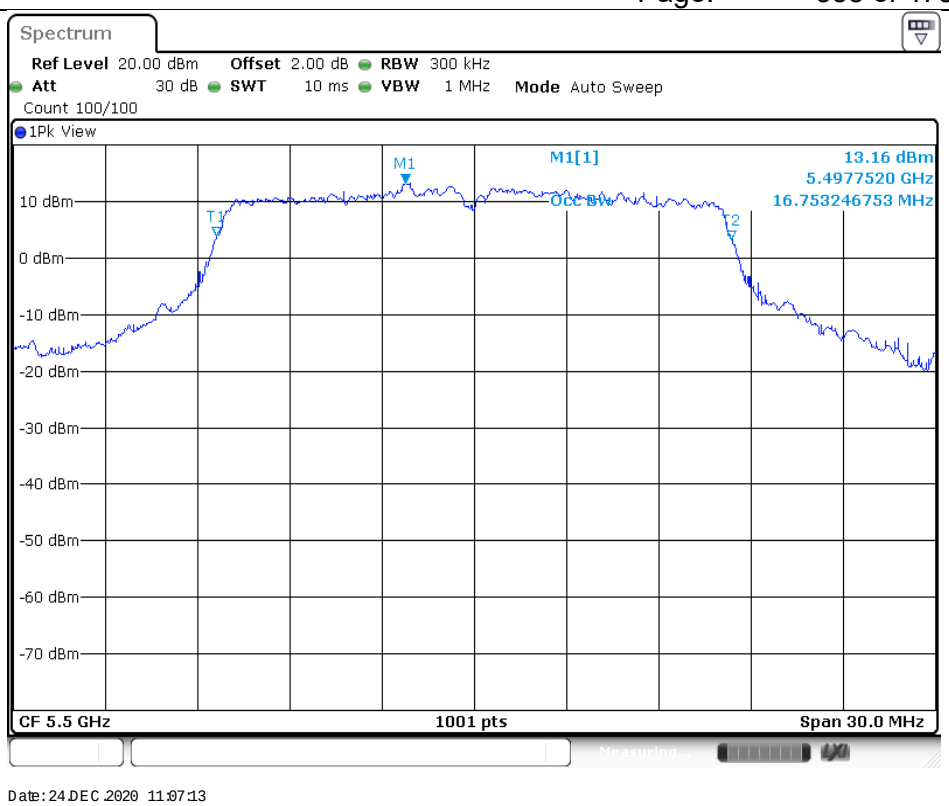

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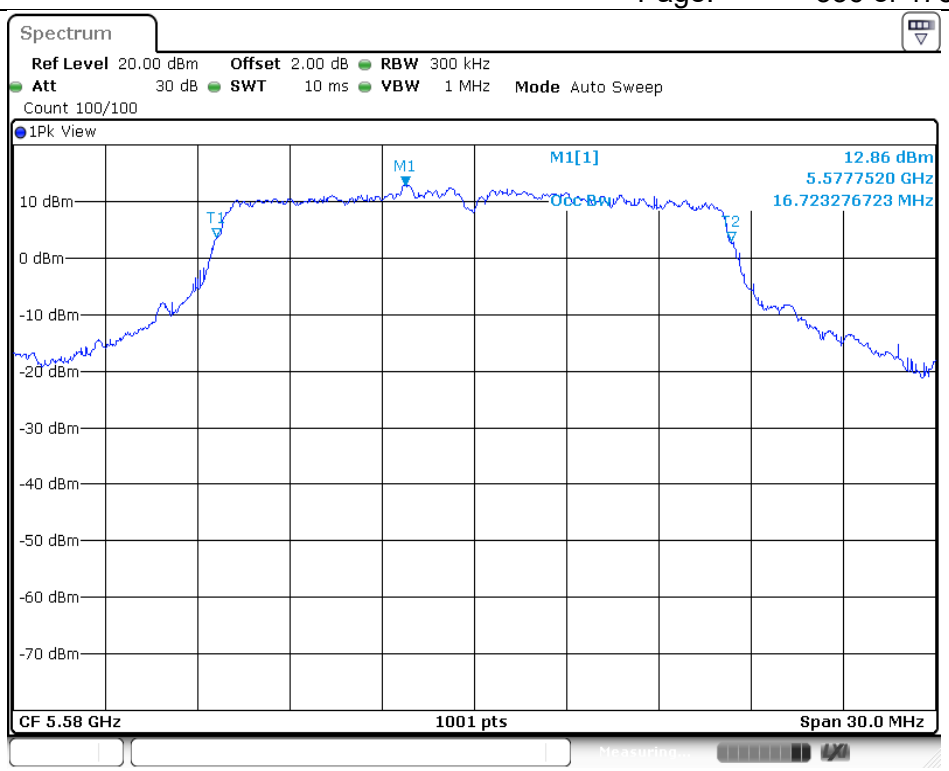

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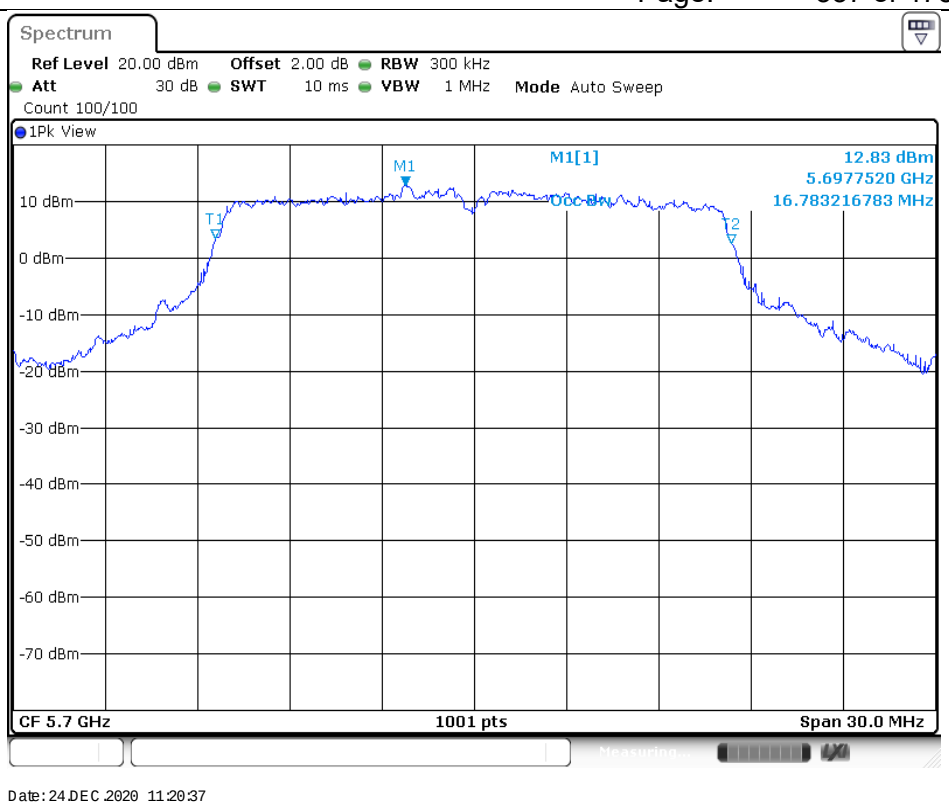

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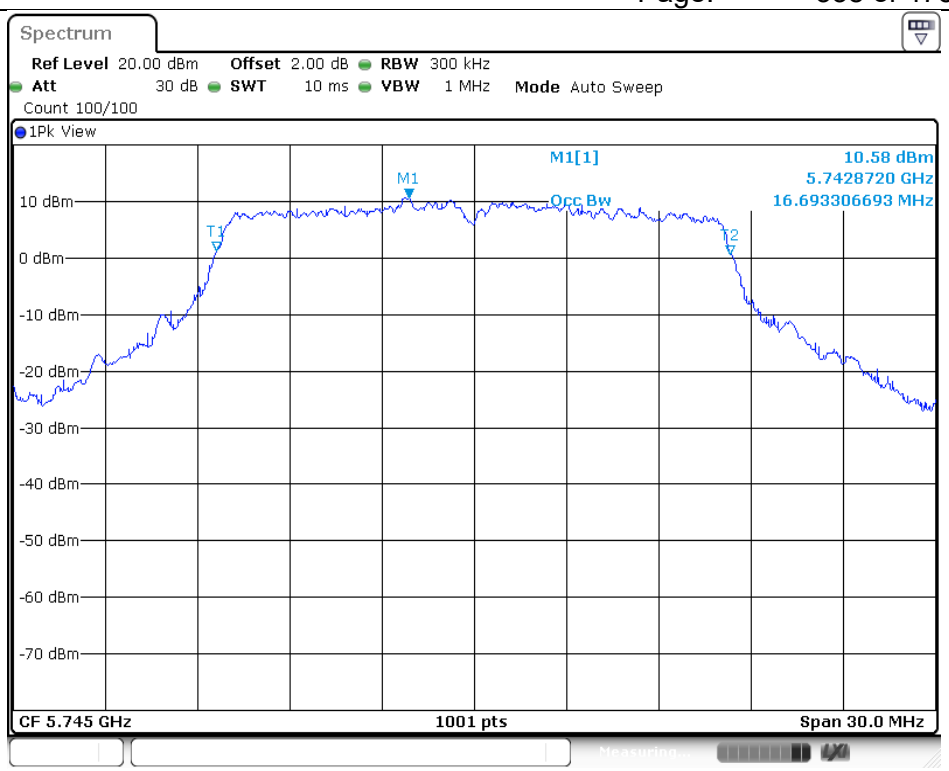

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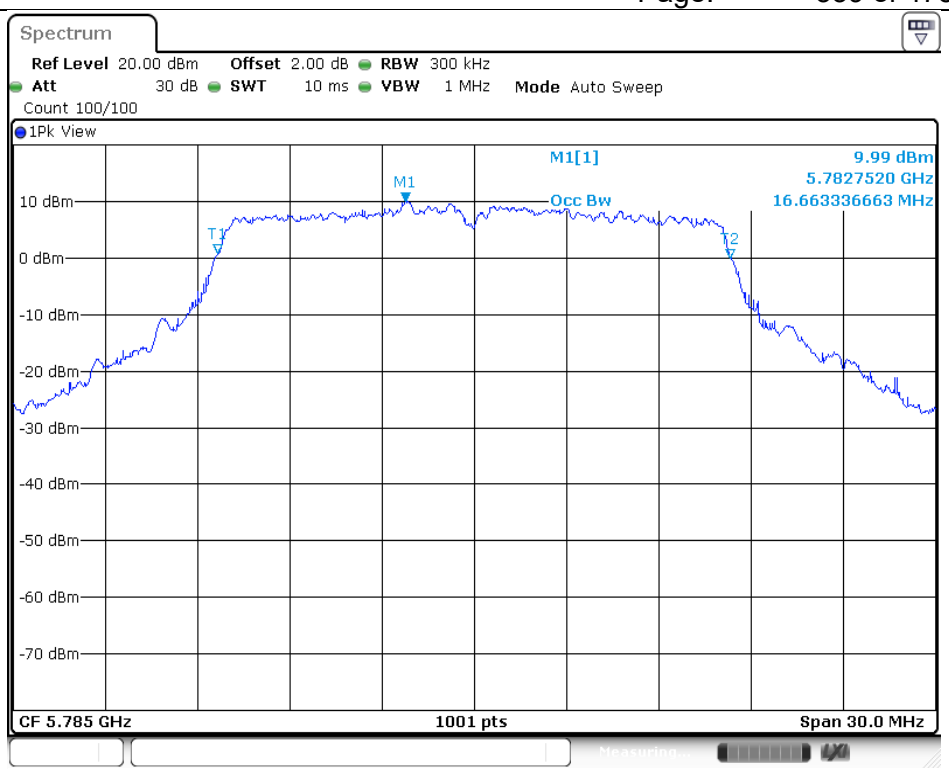

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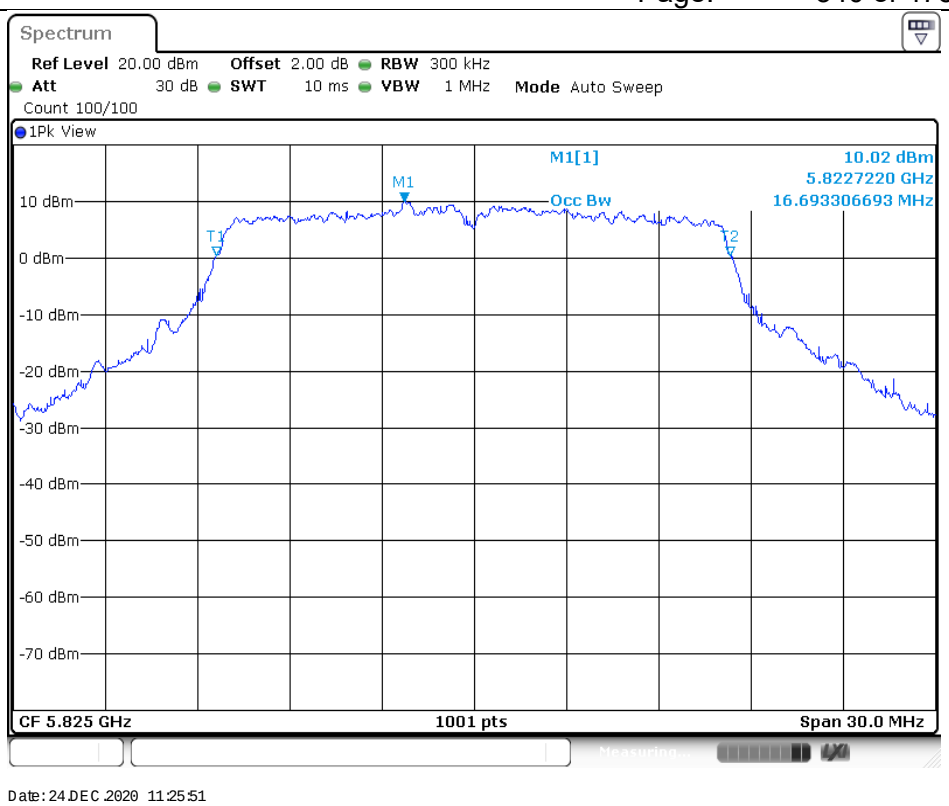

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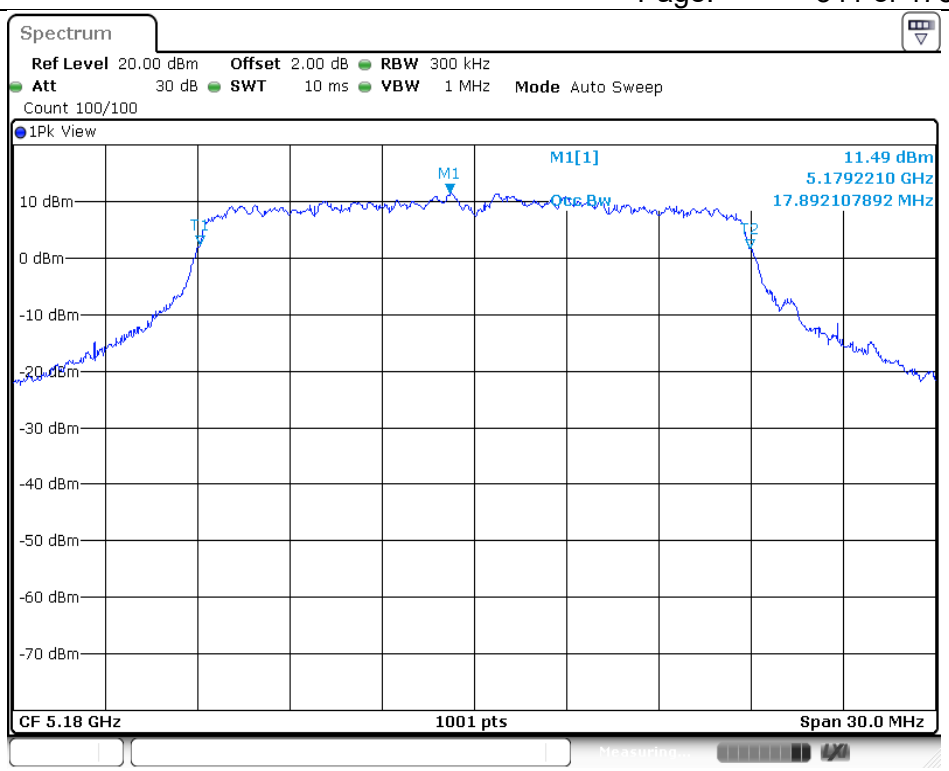

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